### RECEIVED



Westinghouse Electric Corporation

Roger E Wills Jr Assistant General Counsel and Group Manager

Law and Environmental Affairs Department

11 Stanwix Street Pittsburgh Pennsylvania 15222-1384 ·412·642 5815 Fax ·412·642 3923

January 30, 1997

### VIA FEDERAL EXPRESS

Mr. Pat Evangelista
Emergency and Remedial Response Division
U. S. Environmental Protection Agency
290 Broadway, 19<sup>th</sup> Floor
New York, NY 10007-1866

Re: Diamond Alkali Superfund Site, Passaic River Study Area

Dear Mr. Evangelista:

This letter constitutes Westinghouse Electric Corporation's ("Westinghouse") Response to the U.S. Environmental Protection Agency's Request for Information in the above-captioned matter. Without waiving any of its objections and rights hereinafter identified, Westinghouse provides the following:

#### **GENERAL OBJECTIONS**

- 1. Westinghouse objects to the Request for Information ("the Request") on the grounds and to the extent that the Request seeks to impose upon Westinghouse obligations relating to the identification and disclosure of confidential information that are different from, other than, or in addition to, those obligations set forth in 40 C.F.R., Part 2 and CERCLA Section 104(e)(7).
- 2. Westinghouse objects to the Request on the grounds that it implies or infers responsibility with respect to hazardous substances that is different from or broader than that imposed by Section 107 of CERCLA, 42 U.S.C. §9607 or Section 7003 of RCRA, 42 U.S.C. §6873.
- 3. Westinghouse objects to the Request on the grounds and to the extent that it seeks to impose upon Westinghouse obligations relating to the investigation for, disclosure of, and representations concerning any information responsive to the Request that are different from, other than, or in addition to Section 104 of CERCLA, 42 U.S.C. §9604 or Section 3007 of RCRA, 42 U.S.C. §6972.
- 4. Westinghouse objects to the Request for Information on the grounds and to the extent that it attempts to impose upon Westinghouse obligations contrary to the provisions of Article III of the United States Constitution and Title 28 of the United States Code.

### RESPONSES AND SPECIFIC OBJECTIONS

EPA-identified Westinghouse Facility: Relay Instrument Division: 95 Orange Street, Newark, New Jersev

1. How long has your company operated at the facility designated above? If your company no longer operates at this facility, during what years did your company operate at the facility?

RESPONSE: Westinghouse Electric Corporation began operations at the Orange Street facility in 1891 and continued until 1983, when it sold the facility and moved the operations to another state. In 1989, Westinghouse sold the entire Relay Instrument Division.

- 2. a.) Does your company have or has it in the past had a permit or permits issued pursuant to the Resource Conservation and Recovery Act, 42 U.S.C. §6901 et seq.? If "yes," please provide the years that your company held such a permit and its EPA Identification Number.
- b.) Does your company have or has it in the past had a permit or permits issued pursuant to the Federal Water Pollution Control Act, 33 U.S.C. §1251 et seq.? If "yes," please provide the years that your company held such a permit.

RESPONSE: Westinghouse objects to this Request on the grounds that it seeks to impose obligations relating to the investigation for and disclosure of information responsive to the Request that are different from, other than, or in addition to those obligations set forth in Section 104 of CERCLA. Westinghouse further objects to this Request on the grounds that it is vague. ambiguous. overbroad, and unduly burdensome. Without waiving the foregoing General and Specific Objections, Westinghouse responds that it no longer operates the facility, so any permit or identification numbers would be invalid. Nevertheless, Westinghouse responds that the EPA Identification Number for the Orange Street facility was NJD004383485. Westinghouse was a customer of the Passaic Valley Sewage Commissioners and participated in effluent surveys from the Commissioners on at least two occasions in the early 1970s (See "Exhibit A," attached). It also appears that the Westinghouse Orange Street facility held an Industrial Sewer Connection permit issued by the PVSC, as evidenced by a 1982 permit (also attached within "Exhibit A"). Westinghouse has been unable to locate any other information concerning the years in which the Orange Street facility maintained permits under RCRA, FWPCA, or any other state, local, or Westinghouse reserves its right to supplement this Response should Federal regulation. additional information or documents be located.

- 3. Did your company receive, utilize, manufacture, discharge, release, store or dispose of any materials containing the following substances:
- 2,3,7,8 Tetrachlorodibenzo-p-dioxin or other dioxin compounds Benzene

Bromides (if "yes," please list specific compounds)

Chlorides (if "yes," please list specific compounds)

Methylene Chloride Ferric Chloride Hydrochloric Acid Nickel Chloride

Ethyl Benzene

Polyaromatic Hydrocarbons (if "yes," please list specific compounds)

Sulfates (if "yes," please list specific compounds)

Toluene

**Xvlene** 

**PCBs** 

Aluminum

Arsenic

Cadmium

Chromium (Chromic Acid)

Copper

Iron

Lead

Manganese

Mercury

Nickel

Phosphorus (Phosphoric Acid)

Silicon

Silver

Tin

Titanium

Zinc (Zinc Oxide)

Cyanide (Sodium Cyanide, Zinc Cyanide, Copper Cyanide)

RESPONSE: Westinghouse objects to this Request on the grounds that it seeks to impose obligations relating to the investigation for and disclosure of information responsive to the Request that are different from, other than, or in addition to those obligations set forth in Section 104 of CERCLA. Westinghouse further objects to this Request on the grounds that it is vague, ambiguous. overbroad, and unduly burdensome. Without waiving the foregoing General and Specific Objections, Westinghouse responds that it may have used those materials listed above in bold text, in the course of its manufacturing. For additional information, including specific quantities, please see the documents attached as "Exhibit A;" in particular, those under the subheadings of "Manufacturing Process Information" and "Waste Management and Handling."

4. a.) Provide a description of the manufacturing processes for which all hazardous substances, including, but not limited to, the substances listed in response to item (3), were a product or by-product.

- b.) During what parts of the manufacturing processes identified in response to items (4a), above, were hazardous substances, including, but not limited to, the substances listed in response to item (3), generated?
  - i.) Describe the chemical composition of these hazardous substances.
  - ii.) For each process, what amount of hazardous substances was generated per volume of finished product?
  - iii.) Were these hazardous substances combined with wastes from other processes? If so, wastes from what processes?

RESPONSE: Westinghouse objects to this Request on the grounds that it seeks to impose obligations relating to the investigation for and disclosure of information responsive to the Request that are different from, other than, or in addition to those obligations set forth in Section 104 of CERCLA. Westinghouse further objects to this Request on the grounds that it is vague, ambiguous. overbroad, and unduly burdensome. Without waiving the foregoing General and Specific Objections, Westinghouse responds that any documents that it has located concerning the manufacturing processes of the Relay Instrument Division have been attached as "Exhibit A," under the subheading of "Manufacturing Process Information." Should additional information or documents be located, Westinghouse reserves its right to supplement this Response.

- 5. Describe the methods of collection, storage, treatment, and disposal of all hazardous substances, including, but not limited to, the substances listed in response to items (3) and (4). Include information on the following:
- a.) Identify all persons who arranged for and managed the processing, treatment, storage, and disposal of hazardous substances.
- b.) If hazardous substances were taken off-site by a hauler or transporter, provide the names and addresses of the waste haulers and the disposal site locations.
- c.) Describe <u>all</u> storage practices employed by your company with respect to all hazardous substances from the time operations commenced until the present. Include all on-site and off-site storage activities.
  - i.) If drums were stored outside, were the drums stored on the ground or were they stored on areas that had been paved with asphalt or concrete? Please provide a complete description of these storage areas.
  - ii.) When drums were stored outside, were empty drums segregated from full drums?
- d.) What processes do you use to treat your waste? What do you do with the waste after it is treated?

RESPONSE: Westinghouse objects to this Request on the grounds that it seeks to impose obligations relating to the investigation for and disclosure of information responsive to the Request that are different from, other than, or in addition to those obligations set forth in Section 104 of CERCLA. Westinghouse further objects to this Request on the grounds that it is vague, ambiguous, overbroad, and unduly burdensome. Without waiving the foregoing General and Specific Objections, Westinghouse responds that any responsive documents have been attached as "Exhibit A" under the subheading "Waste Management & Handling." Westinghouse further responds that it has identified, through documents, the following individuals who may possess knowledge responsive to this Request. However, Westinghouse is in the process of confirming whether or not these individuals are still living, and if so, where they currently reside.

General Managers: M. W. Mardiss, E. C. Becnel, A. J. Petzinger Works Engineering: S. C. Iannanccone, E. K. Hennel, R. Zeiller

Receiving: J. F. Morgan (Supervisor)

Manufacturing Engineers: P. S. Safran

<u>Product Engineers</u>: C. J. Michelini (Quality Manager), W. T. Buck, M. Maxwell, J. B. MacLean, G. J. Marieni, W. E. Rich, W. A. Elmore, W. F. Clark, L. Husak, R. G. Lakin

With respect to waste haulers and/or transporters, Westinghouse responds that it has identified several companies, but does not have sufficient information to determine how long these firms were used by the Orange Street facility. The identified firms include: CECOS International (transporter & facility), Bill's Waste Oil Service (transporter), B&L Corporation (facility), Baron Blakeslee (transporter & facility), Scavanger (transporter), Scientific Chemical Processing (transporter), L. Pucillo & Sons (transporter), JEM Metal Company (scrap buyer), Rockwell, Inc. (scrap buyer), and P. Pepe & Sons (paper scrap). Any documents addressing these waste facilities and transporters, which Westinghouse has located, are attached as "Exhibit A" under the subheading "Waste Management & Handling." Westinghouse reserves its right to supplement any and all parts of this Response, should it locate additional information or documents.

- 6. a.) For process waste waters generated at the facility which contained any hazardous substances. including, but not limited to, the substances listed in response to items (3) and (4):
  - i.) Was the waste stream discharged into a sanitary sewer and if so, during what years?
  - ii.) Were they treated before being discharged to the sanitary sewer and if so, how? Please be specific.
  - iii.) If the waste waters were not discharged to the sanitary sewer, where were they disposed and during what years?
  - iv.) Please provide the results of any analyses performed on any waste process streams generated at the facility.
  - b.) For floor drains or other disposal drains at the facility:

- i.) Did the drains connect to a sanitary sewer and if so, during what years?
- ii.) If the floor drains or other disposal drains at the facility were not discharged to the sanitary sewer, where did they discharge and during what years?
- c.) Did any storm sewers, catch basins, or lagoons exist at any time at the facility and if so, during what years?
  - i.) If catch basins or lagoons existed, were they lined or unlined?
  - ii.) What was stored in the lagoons?
  - iii.) Where was the discharge from any of these structures released and during what years? Was this discharge treated before its release and if so, how and during what years? What was the chemical composition of any waste waters released and during what years?
- d.) Please supply diagrams of any waste water collection, transport, or disposal systems on the property.

RESPONSE: Westinghouse objects to this Request on the grounds that it seeks to impose obligations relating to the investigation for and disclosure of information responsive to the Request that are different from, other than, or in addition to those obligations set forth in Section 104 of CERCLA. Westinghouse further objects to this Request on the grounds that it is vague, ambiguous, overbroad, and unduly burdensome. Without waiving the foregoing General and Specific Objections, Westinghouse responds that any documents it has located which are responsive to this Request are attached as "Exhibit A" under the subheading of "Sewer and Easement Issues." Should additional information or documents be located, Westinghouse reserves its right to supplement this Response.

- 7. a.) For each hazardous substance, including, but not limited to, the substances listed in response to item (3) or identified in response to item (4), above, provide the total amount generated during the operation of the facility.
- b.) Were any hazardous substances, including, but not limited to, the substances listed in item (3) or identified in response to item (4), above, ever disposed of in the Passaic River or discharged into the Passaic River? If yes, identify the hazardous substances, estimate the amount of materials discharged to or disposed of in the Passaic River and the frequency with which this discharge or disposal occurred. Also, please include any sampling of the river which you might have done after any discharge or disposal.

RESPONSE: Please see Westinghouse's Response to Request No. 6.

8. a.) Please identify any leaks, spills, explosions, fires, or other incidents of accidental material discharge that occurred at the facility during which or as a result of which, any

hazardous substances listed in response to item (3) or (4), were released on the property, into the waste water or storm drainage system at the facility or to the Passaic River. Provide any documents or information relating to these incidents, including the ultimate disposal of any contaminated materials.

b.) Please provide the results of any sampling of the soil, water, air, or other media after any such incident and before and after clean-up. Please provide in this information all sampling performed for or by NJDEP.

RESPONSE: Westinghouse objects to this Request on the grounds that it seeks to impose obligations relating to the investigation for and disclosure of information responsive to the Request that are different from, other than, or in addition to those obligations set forth in Section 104 of CERCLA. Westinghouse further objects to this Request on the grounds that it is vague, ambiguous, overbroad, and unduly burdensome. Without waiving the foregoing General and Specific Objections, Westinghouse responds that it has not located any information or documents indicating or suggesting that any leaks, spills, explosions, fires or other incidents of accidental material discharge occurred at the facility and were subsequently released on to the Orange Street property, the waste water or storm drainage system or to the Passaic River. Westinghouse does, however, reserve its right to supplement this Response, should it locate information or documents which indicate to the contrary.

- 9. a.) Was your facility ever subject to flooding? If so, was the flooding due to:
  - i.) overflow from the sanitary or storm sewer backup, and/or
  - ii.) flood overflow from the Passaic River?
  - b.) Please provide the date and duration of each flood event.

RESPONSE: Westinghouse objects to this Request on the grounds that it seeks to impose obligations relating to the investigation for and disclosure of information responsive to the Request that are different from, other than, or in addition to those obligations set forth in Section 104 of CERCLA. Westinghouse further objects to this Request on the grounds that it is vague, ambiguous. overbroad, and unduly burdensome. Without waiving the foregoing General and Specific Objections, Westinghouse responds that it has not located any information indicating that the Orange Street facility was ever subject to flooding or to flood damage.

10. Please provide a detailed description of any civil, criminal, or administrative proceedings against your company for violations of any local, State, or Federal laws or regulations relating to water pollution or hazardous waste generation, storage, transport, or disposal. Provide copies of all pleadings and depositions or other testimony given in these proceedings.

RESPONSE: Westinghouse objects to this Request on the grounds that it seeks to impose obligations relating to the investigation for and disclosure of information responsive to the

Request that are different from, other than, or in addition to those obligations set forth in Section 104 of CERCLA. Westinghouse further objects to this Request on the grounds that it is vague, ambiguous, overbroad, and unduly burdensome. Without waiving the foregoing General and Specific Objections, Westinghouse responds that it is involved in litigation arising from the purchase of the Orange Street facility by the New West Urban Renewal Company. This litigation was filed in the Federal District Court for the District of New Jersey (New West Urban Renewal Co. v. Westinghouse Electric Corp., DC NJ, No. 94-1033). Westinghouse further states that, if necessary, it will make appropriate responsive documents available to the USEPA for inspection and copying at the Westinghouse Building, 11 Stanwix Street, Pittsburgh, PA 15222 at a mutually convenient time; notwithstanding which Westinghouse believes any costs incurred by USEPA to obtain or review such documents is inconsistent with the NCP.

11. Provide a copy of each document which relates to the generation, purchase, use, handling, hauling, and/or disposal of all hazardous substances, including, but not limited to, the substances listed in items (3) or (4). If you are unable to provide a copy of any document, then identify the document by describing the nature of the document (e.g. letter, file memo, invoice, inventory form, billing record, hazardous waste manifest, etc.). Describe the relevant information contained therein. Identify by name and job title the person who prepared the document. If the document is not readily available, state where it is stored, maintained, or why it is unavailable.

RESPONSE: Westinghouse objects to this Request on the grounds that it seeks to impose obligations relating to the investigation for and disclosure of information responsive to the Request that are different from, other than, or in addition to those obligations set forth in Section 104 of CERCLA. Westinghouse further objects to this Request on the grounds that it is vague, ambiguous. overbroad, and unduly burdensome. Without waiving the foregoing General and Specific Objections, Westinghouse responds that it ceased operations at the Orange Street facility nearly 15 years ago and it is unlikely that all of the documents relating to waste handling (such as manifests) are still in existence. Any documents that Westinghouse has located, which are responsive to this Request, have been attached as "Exhibit A" under the subheading of "Waste Management and Handling." Westinghouse reserves its right to supplement this Response, should additional information or documents be located.

- 12. a.) Did you or anyone else sample the soil, groundwater, surface water, ambient air, or other environmental media at the facility for purposes other than those identified in questions above?
- b.) If so, please provide all other documents pertaining to the results of these analyses.

RESPONSE: Westinghouse objects to this Request on the grounds that it seeks to impose obligations relating to the investigation for and disclosure of information responsive to the Request that are different from, other than, or in addition to those obligations set forth in Section 104 of CERCLA. Westinghouse further objects to this Request on the grounds that it is vague,

ambiguous, overbroad, and unduly burdensome. Without waiving the foregoing General and Specific Objections, Westinghouse responds that any documents it has located pertaining to sampling of soil, groundwater, surface water, ambient air, or other environmental media have been attached to these Responses in "Exhibit A." Should additional responsive sampling information be located, Westinghouse reserves its right to supplement this Response.

- 13. a.) Has your company owned the facility at the location designated above? If so, from whom did your company purchase the property and in what year? If your company subsequently sold the property, to whom did your company sell it and in what year? Please provide copies of any deeds and documents of sale.
- b.) If your company did not own the facility, from whom did your company rent the facility and for what years? Please provide copies of any rental agreements.
- c.) To the extent that you know, please provide the names of all parties who owned or operated the facility from 1940 through the present. Describe the relationship, if any, of each of those parties with your company.

RESPONSE: Westinghouse objects to this Request on the grounds that it seeks to impose obligations relating to the investigation for and disclosure of information responsive to the Request that are different from, other than, or in addition to those obligations set forth in Section 104 of CERCLA. Westinghouse further objects to this Request on the grounds that it is vague, ambiguous, overbroad, and unduly burdensome. Without waiving the foregoing General and Specific Objections, Westinghouse responds that it began operations at the Orange Street facility in 1891. During the first part of the twentieth century, it purchased additional land and continued to expand the facility, which it owned. In 1983, the facility was sold to the New West Urban Renewal Company and the Relay Instrument Division operations were moved to another state. Westinghouse further states that, if necessary, it will make appropriate responsive documents available to the USEPA for inspection and copying at the Westinghouse Building, 11 Stanwix Street, Pittsburgh, PA 15222 at a mutually convenient time; notwithstanding which it believes any costs incurred by USEPA to obtain or review such documents is inconsistent with the NCP.

- 14. Answer the following questions regarding your business or company. In identifying a company that no longer exists, provide all the information requested, except for the agency for service of process. If your company did business under more than one name, list each name.
  - a.) State the legal name of your company.
- b.) State the name and address of the president or the chairman of the board, or other presiding officers of your company.
- c.) Identify the state of incorporation of your company and your company's agent for service of process in the state of incorporation and in New Jersey.

- d.) Provide a copy of your company's Certificate of Incorporation and any amendments thereto.
- e.) If your company is a subsidiary or affiliate of another company, or has subsidiaries, or is a successor to another company, identify these related companies. For each related company, describe the relationship to your company; indicate the date and manner in which each relationship was established.
- f.) Identify any predecessor organization and the dates that such company became part of your company.
- g.) Identify any other companies which were acquired by your company or merged with your company.
- h.) Identify the date of incorporation, state of incorporation, agents for service of process in the state of incorporation and New Jersey, and nature of business contact, for each company identified in the responses to items 14 (e), (f), and (g), above.
- i.) Identify all previous owners or parent companies, address(es), and the date change in ownership occurred.

RESPONSE: Westinghouse objects to this Request on the grounds that it seeks to impose obligations relating to the investigation for and disclosure of information responsive to the Request that are different from, other than, or in addition to those obligations set forth in Section 104 of CERCLA. Westinghouse further objects to this Request on the grounds that it is vague, ambiguous, overbroad, and unduly burdensome. Without waiving the foregoing General and Specific Objections, Westinghouse responds that the legal name of the Respondent is Westinghouse Electric Corporation. Its principal place of business and headquarters is 11 Stanwix Street. Pittsburgh, Pennsylvania 15222. Westinghouse is a publicly-traded corporation, organized and incorporated in the Commonwealth of Pennsylvania on April 9, 1872. With respect to its subsidiaries and affiliates, Westinghouse attaches as "Exhibit B," a recent list of its wholly and partially-owned subsidiaries. With respect to its corporate organization, a copy of its 1995 Annual Report is attached as "Exhibit C." Westinghouse's registered agent for service of process in New Jersey is CT Corporation. However, any future correspondence concerning this Site should be directed to the undersigned, as provided in Response No. 15, also.

15. Provide the name, address, telephone number, title, and occupation of the person(s) answering this "Request for Information" and state whether such person(s) has or have personal knowledge of the responses. In addition, identify each person who assisted in any way in responding to the "Request for Information" and specify the question to which each person assisted in responding. Please include the names and addresses of former employees who were contacted to respond to any of the questions.

RESPONSE: The person filing this response on behalf of Westinghouse is Roger E. Wills, Assistant General Counsel. Mr. Wills may be reached at the following address and phone number:

Westinghouse Electric Corporation

11 Stanwix Street Pittsburgh, PA 15222

Phone: 412-642-5815 Facsimile: 412-642-3923

In addition to Mr. Wills, the following persons assisted in the preparation of these Responses: Beth A. MacManus, Legal Assistant; William McElravy, Records Center Manager; Patrick Seybert, Records Center Supervisor; and Leslie Kenzevich, Legal Assistant.

As stated above, should Westinghouse locate additional persons, information, and/or documents which would be responsive to this Information Request, Westinghouse reserves its right to supplement these Responses. In the meantime, should you have any questions or wish to discuss this matter further, please do not hesitate to contact me.

Very truly yours.

Roger E. Wills, Jr.

Enclosures

cc: Ms. Amelia Wagner (USEPA)

Ms. Beth A. MacManus

# Diamond Alkali Co. Passaic River Site

### NJD980528996

THIS DOCUMENT "Westinghouse Electric Corporation's response to the USEPA's request for information, dated January 30, 1997" IS CURRENTLY CLASSIFIED AS NON-CONFIDENTIAL BY EPA.

Kedari Reddy
Office of Regional Counsel

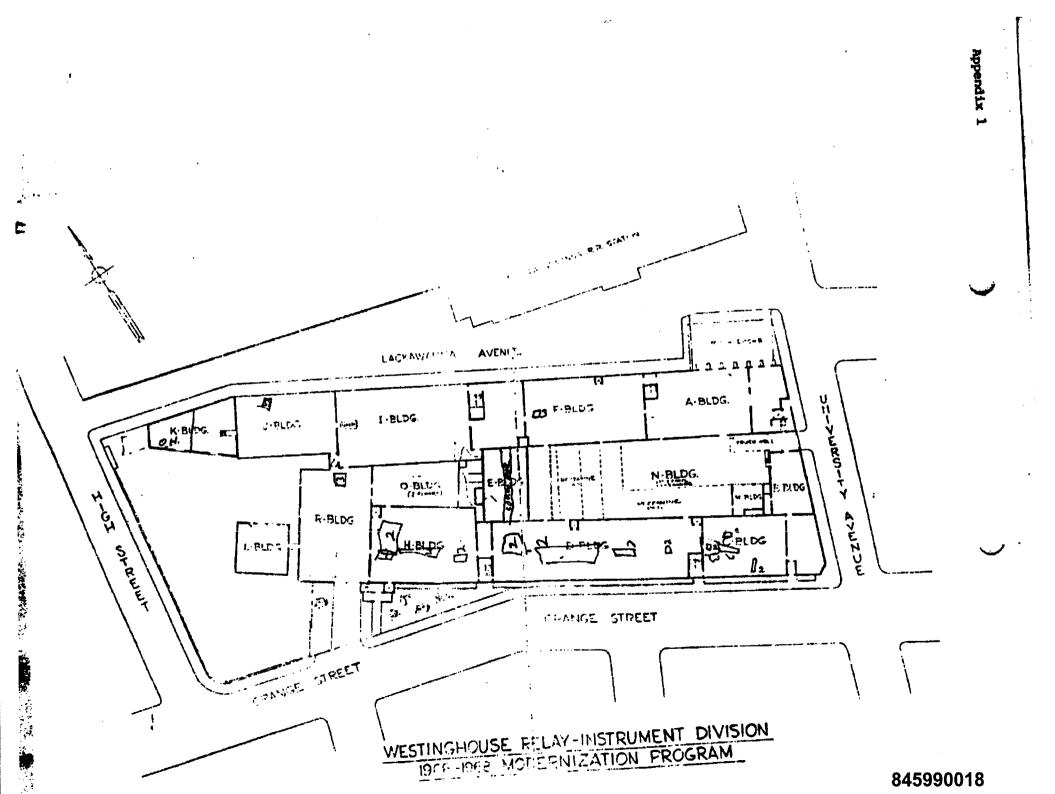
07/10/2003 Date **Exhibit A**Westinghouse Electric Corporation

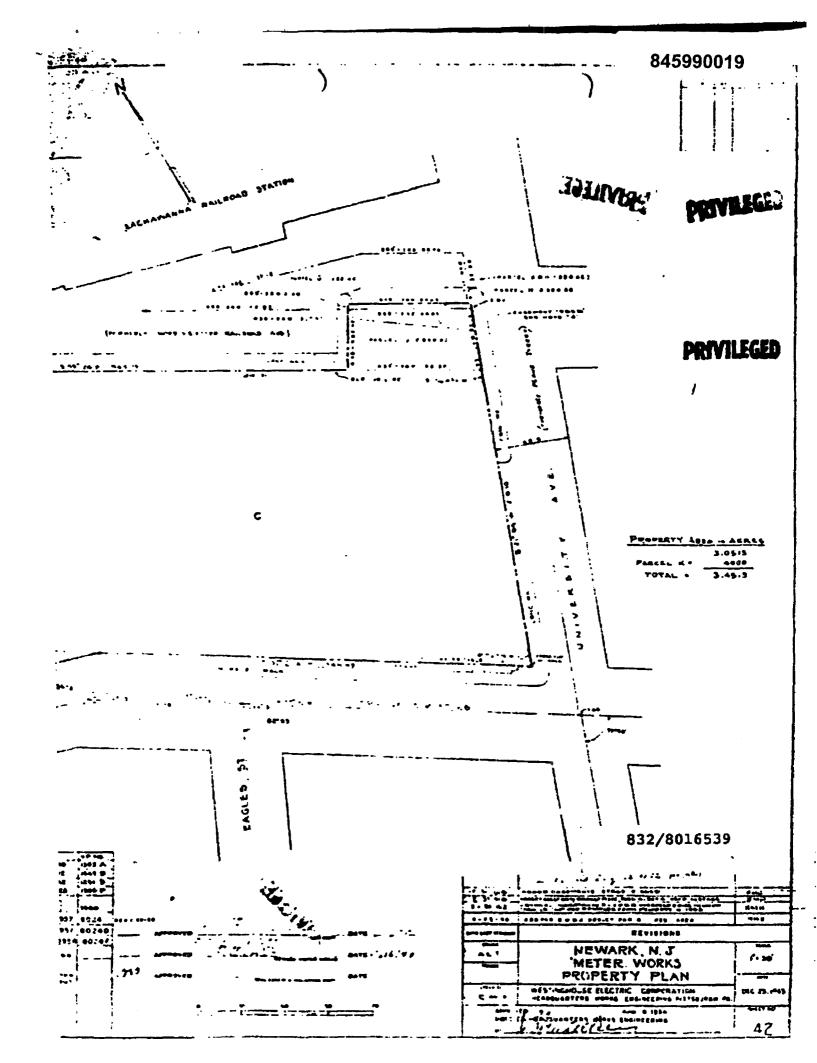
### Index to Exhibit A: Westinghouse Electric Corporation

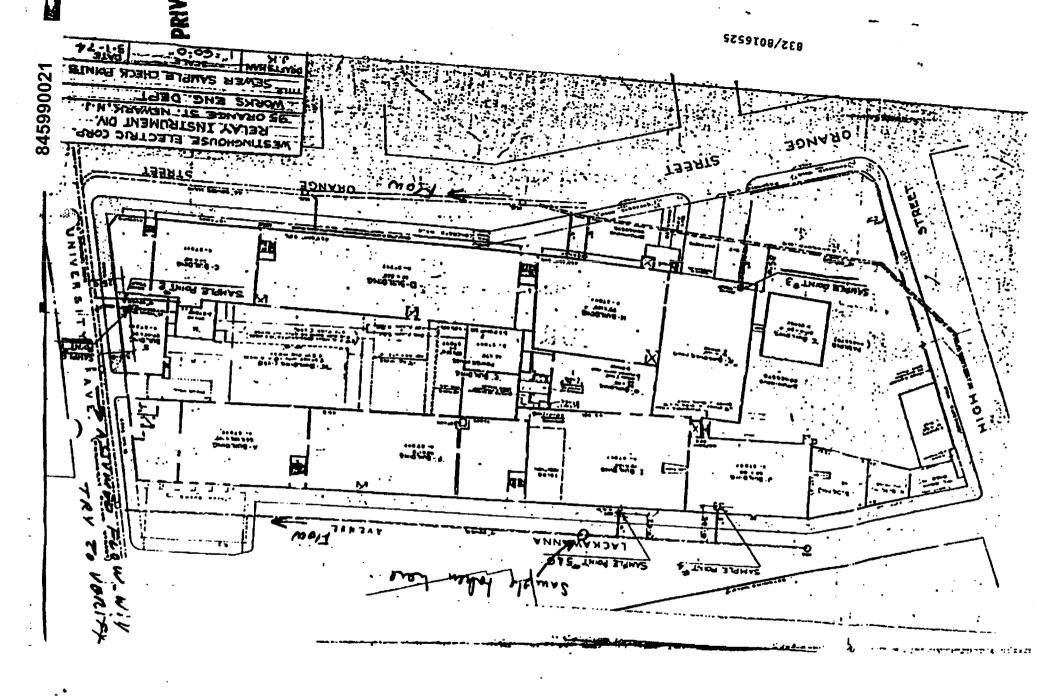
| Property Information  |   |
|-----------------------|---|
| Undated               | Property Map: 95 Orange Street, Newark, New Jersey                              |
| Undated               | Property Map: 1908-1962 Modernization Program                                   |
| Undated               | Property Map: Property Plan (excerpts)  |
| 03/01/74              | Property Map: Sewer Sample Check Points   |
| 05/07/82              | Westinghouse Memo re: Sewage Sampling   |
| 12/13/83              | CECOS, International Report re: PCB Sampling                                    |
| 02/03/84              | CECOS, International Closeout Report  |
|                       |   |
| Manufacturing Process | s Information   |
| Undated               | Baron Blakeslee Conveyor Type Steam Heated Vapor Degreaser (modifications)      |
| 08/25/61              | Process Specification: Inks for Instrument/Meter Recording Apparatus            |
| 07/27/82              | Administrative Consent Order (NJDEP): Air Pollution/Emissions                   |
| 08/12/82              | Bureau of Air Pollution Control (NJDEP) Application (2)                         |
| 08/18/82              | Handwritten Notes re: Emulsion Cleaner (includes 1964 Process Specification)    |
| 09/13/82              | NJDEP Notice of Incomplete Air Pollution Control Permit Application             |
| 10/11/82              | Westinghouse Letter to NJDEP re: equipment forms                                |
| 10/25/83              | Westinghouse Letter re: achievement of compliance in re: ACO of 7/27/82         |
|                       |   |
| Waste Management &    |   |
| 03/11/70              | Westinghouse Memorandum re: Environmental Pollution at Newark facility          |
| 09/24/71              | Westinghouse Environmental Control Survey: Newark                               |
| 06/12/72              | U.S. Testing Co. Sampling Results: Water/Wastewater Analysis (2)                |
| 01/11/77              | NJDEP/EPA Air Pollution Control Survey  |
| 10/30/79              | Westinghouse Memorandum re: SPCC Plan/Oil Pollution Prevention                  |
| 06/09/80              | Westinghouse Environmental Control Survey: Newark                               |
| 07/13/81              | Westinghouse Industrial Hygiene Audit Report: Newark                            |
| 12/21/82              | EPA Generator Annual Hazardous Waste Report                                     |
| 01/01/84              | NJDEP-Bureau of Hazardous Waste Generator's Annual Report                       |
| Sewer & Easement iss  |   |
| Undated               | Property Maps (2)   |
| 03/05/70              | Extracts from Revised Ordinances of Newark, 1951                                |
| 07/11/72              | Passaic Valley Sewerage Commissioners ("PVSC") Waste Effluent Survey            |
| 10/03/72              | Westinghouse Memorandum re: 1972 PVSC Waste Effluent Survey                     |
| 03/19/75              | PVSC Waste Effluent Survey  |
| 03/20/75              | Westinghouse Memorandum re: 1975 PVSC Waste Effluent Survey                     |
| 08/01/76              | PVSC Letter re: New Sewerage Connection Regulations                             |
| 01/06/77              | PVSC Letter to Westinghouse re: Heavy Metals Survey                             |
| 02/06/81              | PVSC Application for Sewer Connection   |
| 02/13/81              | Westinghouse Letter to PVSC re: Revised Sewer Connection Application            |
| 03/19/81              | PVSC Notice re: Pretreatment Standards for Mercury                              |
| 10/28/81              | U.S. Testing Co. Wastewater Sample Results: 95 Orange Street, Newark            |
| 11/04/81              | Westinghouse Letter to PVSC re: Monitoring and Composite Sampling Proposals     |
| 01/14/82              | PVSC Industrial Sewer Connection Permit: 95 Orange Street, Newark               |
| 03/09/82              | CFM Letter to City of Newark re: Sampling System Installation, 95 Orange Street |
| 03/17/82              | City of Newark Letter to CFM re: Additional Requirements/Requests               |
| 03/25/82              | City of Newark Map: Orange Street Easement (2)                                  |
| 04/08/82              | Westinghouse Letter to PVSC re: Delay in Sewage Sampling Installations          |
| 05/17/82              | Westinghouse Memorandum re: 95 Orange Street Sewage Sampling Points             |
| 06/25/82              | Westinghouse Letter to PVSC re: Sewer Sampling, Plant Operation Status          |
| 10/07/82              | City of Newark Ordinance Granting Westinghouse Request for Sewer Easement       |
| 11/12/82              | City of Newark Letter Enclosing Ordinance                                       |
| 11/23/82              | Westinghouse Letter to PVSC re: pH Readings                                     |
| 11/24/82              | PVSC Letter to Westinghouse re: recent pH Readings                              |
| 12/03/82              | Westinghouse Letter to PVSC clarifying pH Readings, Request                     |
| 01/12/83              | Westinghouse Letter to PVSC re: Monitoring for pH                               |
| 03/23/83              | Westinghouse Letter to PVSC re: Monitoring for pH Update                        |
| 04/28/83              | PVSC Record of Changes to Treatment Works Rules/Regulations                     |
| 08/23/83              | Westinghouse Memorandum re: Sewage Sampling Easement                            |
|                       |   |

Exhibit A
Property Information

| Westinghouse Electric Corporation |   |      | <b>w</b> |
|-----------------------------------|---|------|----------|
| DETM & 9 16 TO APOD               |   |      |          |
| SCALE 1 4 GO C 4700               | S | · or |          |
|                                   |   |      |          |







82-1-00-

### **PRIVILEGED**

From Newark Relay-Instrument Division

WIN 326-2478 Date May 7, 1982

Subject Re: Sewage Sampling

MAY 10 1982

### 13 PITTSBURGH-GATEWAY ROOM 858

Attorney Michele Gutman

Dear Michele:

Enclosed are:

- a) Two copies of letter received from the City of Newark.
  On one copy, I have comments (in red) on information I assume is needed in the blanks (in blue).
- b) A copy of survey drawing with associated description.
- c) A copy of our property plan, #42.

Paragraphs 3 and 4 of the Newark letter (Ordinance) refer to the items you had been concerned about. I am not sure what "the Map of the Commissioners" is (Paragraph 1). Is that a map the City has or could our 42 act as that?

Of course, I'm curious if this really requires an ordinance with its built - in delays, if the insurance is normal, if the \$150 fee is in line, etc.

Please advise if I can help you to help us.

P. S. Safran, Mfg. Engineer

Works Engineering

PSS:jt

AND THE PROPERTY OF THE PROPER

This copy to
Walter Becker
Westinghouse Electric Corporation
Westinghouse building.
Gate way Center
Pittsburg. PA 15222

December 13, 1983

Westinghouse Electric Company Chatam Center Office Building P.O. Fox 1017 Pittsburg, Pennsylvania 15230

Attention: Mr. B. A. Kerns

Dear Mr. Korns:

Enclosed are the results of the tests for concentration of polychlorinated biphenyls for samples taken at the Westinghouse's Newark facility.

All samples showed less than 50 parts per million (ppm). The Environmental Protection Agency considers concentrations of less than 50 ppm to non PCB.

All samples were taken by the wipe method. The sample areas were measured 10 cm x 10 cm. A pre-weighed filter pad, dampened with benzene, was wrapped around a wood block and used to wipe the sample area. The filter paper was then placed into glass sample bottles and sent to RECRA Research, Inc.

If you have any questions, or if any clarifications are necessary, please do not hesitate to contact us.

Sincerely,

CECOS Environmental, Inc.

Nicholas J. Prevosti Project Supervisor

NY-NJ Metropolitan Branch

NJP:kb Attachment



Wipe Samples in Mg/100 cm²
per Nick. Provedto en 12/19/83
uniter will follow.

1- 50 mg/100 cm2

2 - 20

a ... 30

1 - 4C

3ن ع

1 - 10

W. C. Becker WIN 235-3969

| Sample     | PPM | Sample Location   |
|------------|-----|---|
|            |     |   |
| 1          | 20  | Plant Area Al. All three samples were taken within 5'   |
| 3          | 10  | of the south wall in the capacitor inspection area of   |
| 2          | 10  | the inspection room. These sample areas are marked by   |
|            |     | grooves scratched into the tile floors with the sample  |
|            | •   | number scratched into the tile next to each correspond- |
|            |     | ing location.   |
|            |     |   |
| 4          | 10  | Plant Area F2. Screw machine department oil collection  |
|            |     | area. This sample was taken in the center of the room   |
|            |     | on the south side of the main center corridor and is    |
|            |     | marked by nails in the wood floor at each corner of the |
|            |     | 10 cm x 10 cm sample area.                              |
|            |     | _   |
|            |     |   |
| 5          | 10  | Plant Area I2. Milling machine department. This         |
|            |     | sample was taken 5' east of the west wall and 20' south |
|            |     | of the north wall. It is marked by nails in the wood    |
|            |     | floor at each corner of the 10 cm x 10 cm sample area.  |
|            |     | •   |
|            |     |   |
| $\epsilon$ | 20  | Plant Area Jl. Chemistry lab. This sample was taken     |
|            |     | from the middle lab bench near the eye wash station.    |
|            |     | It is marked by a groove scratched into the bench top.  |
|            |     | • -   |

#### ANALYTICAL RESULTS

### CECOS INTERNATIONAL, INC. GAS CHRONATOGRAPHY

Report Date: 12/7/83

|                                | PARAMETER (UNITS OF MEASURE)    |
|--------------------------------|---------------------------------|
|                                | TOTAL POLYCHLORINATED BIPHENYLS |
| SAMPLE IDENTIFICATION          | (ug/g AC AROCLOR 1242)          |
| Sample #15 Person of admin     | <20                             |
| Sample #2 inspection from      | ~10                             |
| Sample #3 inspection Alea.     | دا0                             |
| Sample #4 oil collection area. | ا مرب الرب الـ .<br>ح10         |
| Sample #5 area                 | <10                             |
| Sample #6 and dy lab.          | ج20                             |

#### COMMENTS:

Analyses were performed according to U.S. Environmental Protection Agency methodologies where applicable.

The chromatograms of the samples were qualitatively screened for the presence of nine PCB mixtures (Aroclors). These included Aroclor 1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268.

The values reported as "less than" (<) indicate the working detection limit for the particular sample and/or parameter.

| FOR RECEA ENVIRONMENTAL LAPORATORIES | 12 March J. Mario |
|--------------------------------------|-------------------|
|                                      | 17/A2             |

### ANALYTICAL RESULIS

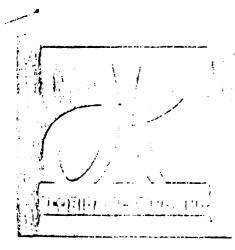
## CECOS INTERNATIONAL, INC. GAS CHROMATOGRAPHY QUALITY CONTROL

Report Date: 12/7/83

PCB RECOVERY ANALYSIS OF METHOD BLANK

|                | HETHOL | 11134141  |          |
|----------------|--------|-----------|----------|
| COMPOUND       | ng OF  | πg        | 9/<br>/6 |
| 1DUNTIFICATION | SPIKE  | RECOVERED | RECOVERY |
| Aroclor 1242   | 1.0    | 1.2       | 120      |

| FCE | RECRA | ENVIRONMENTAL | LABORA.TORIES | Klwak 7 Realls |
|-----|-------|---------------|---------------|----------------|
|     |       |               | DATE          | 10/7/23        |



3253 - 46th Avenue North St. Petersburg, Florida 33714 Phone (813) 526-9056

November 11, 1983

Westinghouse Electric Corporation 95 Orange Street Newark, New Jersey 07101

Attention: Mr. Jack Morgan

Dear Mr. Morgan.

Thank you for this opportunity to bid on the removal of your metal finishing equipment. We feel that our proposal will have the following benefits for Westinghouse:

- 1. removal of equipment at Florida Plating, Inc. expense ( with disconnecting of services by Westinghouse personnel).
- 2. removal of plating solutions now contained in drums and plating tanks; proprietary chemicals (brighteners, cleaners, etc., that have not been used); proper labeling and final shipment via common carrier to our facility in St. Petersburg, Florida (at Florida Plating, Inc. expense).
- 3. removal, labeling, proper packaging and shipment to Florida Plating, Inc., of identifiable laboratory chemicals that support plating operations (i.e. Reagent Grade chemicals for solution titration but specifically NOT solvents) at expense of Florida Plating, Inc.
- 4. payment by Florida Plating, Inc. to Westinghouse of \$5,000.00 for salvage rights to following areas and equipment:
  - A. entire plating facility to include all tanks, barrels, rectifiers, hoist, hoist rails, electrical starters, exhaust hoods, coils, controls and all support equipment for rack and barrel plating (to include all spare parts, maintenance items, etc.), all anodes and baskets, and copper bussing, and floor boards.
  - B. Udylite Jr. automatic and all support equipment such as rectifier, racks, automatic rack loader, exhaust hoods, and copper bussing.
  - C. paint booth (20' long), dispatch gas fired oven, all rolling

- racks, Barrett centrifuge and support equipment and 7' oven (electric)(all contained in one room).
- D. major components of conveyorized paint system consisting of various paint booths, conveyor system, spare parts, paint pots, spray guns, air lines and fittings, blowers, pumps, motors, and support equipment including ovens.
- E. barrel tumbling equipment adjacent to plating area, to include all horizontal barrel and oblique deburring equipment, motors, starters, and all support equipment.
- F. contents of caged area adjacent to plating room consisting of chemicals, pumps, tanks, scales, etc.
- G. contents of lab pertaining to support of plating such as 50 amp Rapid rectifier, balance, at least 2 lab tables with sinks, and at least 2 chemical hood systems and support equipment.
- H. all remaining 220 volts and 110 volt ovens with capacity to exceed 375° F (except heat treat area).
- at least one 1200° F oven (small) located in heat treat area.
- J. Rockwell Tester located in heat treat area.
- K. Ultrasonic unit located in heat treat area.
- L. remaining pallet racks located in shipping area.
- M. 2 stainless tanks (in room with fork truck rechargers)
- N. at least 6 hand pallet movers (pallet jacks)
- O. Daniels Oblique barrel equipment (located in machine department) including platform scale.
- P. contents of caged maintenance area adjacent to the laboratory to include all spare parts for plating equipment, all equipment for plating department, work benches to include lathe, grinder, drill press, etc.
- Q. impregnation unit with vacuum pump
- R. water sampling units

Jack, our approach to Westinghouse is to remove for reuse, chemicals, equipment, floor boards, lab chemicals, etc., rather than have Westinghouse in the position of classifying said items to be disposed. As we all know disposal classification entails Federal, State and City permitting, record keeping, hauling away and disposing of these same items at great expense and exposure to Westinghouse. Classification and sale for reuse eliminates all this environmental hassle. Please assure Westinghouse personnel that Florida Plating, Inc., has in use the necessary waste treatment equipment to treat the waste from the use of these items and we are properly permitted.

Jack, we appreciate the courtesies you have extended to us especially the time you have given on our trips to your Newark facility. We trust this proposal will meet with your approval.

Sincerely,

C.David Roach Sales Manager &

Technical Representative



CECOS

ENVIRONMENTAL. INC.

1 Eagewater Place Staten Island, NY 10305 (212) 448-8555

December 13, 1983

Westinghouse Electric Company Chatam Center Office Building P.O. Box 1017 Pittsburg, Pennsylvania 15230

Attention: Mr. B. A. Kerns

Dear Mr. Kerns:

Enclosed are the results of the tests for concentration of polychlorinated biphenyls for samples taken at the Westinghouse's Newark facility.

All samples showed less than 50 parts per million (ppm). The Environmental Protection Agency considers concentrations of less than 50 ppm to non PCB.

All samples were taken by the wipe method. The sample areas were measured  $10~\rm cm \times 10~\rm cm$ . A pre-weighed filter pad, dampened with benzene, was wrapped around a wood block and used to wipe the sample area. The filter paper was then placed into glass sample bottles and sent to RECRA Research, Inc.

If you have any questions, or if any clarifications are necessary, please do not hesitate to contact us.

Sincerely,

CECOS Environmental, Inc.

Nicholas J. Prevosti Project Supervisor

NY-NJ Metropolitan Branch

NJP:kb Attachment

| Sample | PPM | Sample Location   |
|--------|-----|---|
|        |     |   |
| 1      | 20  | Plant Area Al. All three samples were taken within 5'   |
| 3      | 10  | of the south wall in the capacitor inspection area of   |
| 2      | 10  | the inspection room. These sample areas are marked by   |
|        |     | grooves scratched into the tile floors with the sample  |
|        |     | number scratched into the tile next to each correspond- |
|        |     | ing location.   |
|        |     |   |
| 4      | 10  | Plant Area F2. Screw machine department oil collection  |
|        |     | area. This sample was taken in the center of the room   |
|        |     | on the south side of the main center corridor and is    |
|        |     | marked by nails in the wood floor at each corner of the |
|        |     | 10 cm x 10 cm sample area.                              |
|        |     |   |
|        |     |   |
| 5      | 10  | Plant Area 12. Milling machine department. This         |
|        |     | sample was taken 5' east of the west wall and 20' south |
|        |     | of the north wall. It is marked by nails in the wood    |
|        |     | floor at each corner of the 10 cm x 10 cm sample area.  |
|        |     |   |
|        |     |   |
| 6      | 20  | Plant Area Jl. Chemistry lab. This sample was taken     |
|        |     | from the middle lab bench near the eye wash station.    |
|        |     | It is marked by a groove scratched into the bench top.  |
|        | -   |   |

#### ANALYTICAL RESULTS

### CECOS INTERNATIONAL, INC. GAS CHROMATOGRAPHY

Report Date: 12/7/83

|                                | PARAMETER (UNITS OF MEASURE)    |
|--------------------------------|---------------------------------|
|                                | TOTAL POLYCHLORINATED BIPHENYLS |
| SAMPLE IDENTIFICATION          | (ug/g AS AROCLOR 1242)          |
| Sample #1 copes to in pactimer | <20                             |
| Sample #2 inspection from      | <10                             |
| Sample 113 inspection Alea.    | <10                             |
| Sample #401/ collection area.  | <10                             |
| Sample #5 area                 | <10                             |
| Sample \$6 and dye lab.        | <20                             |

#### COMMENTS:

Analyses were performed according to U.S. Environmental Protection Agency methodologies where applicable.

The chromatograms of the samples were qualitatively screened for the presence of nine PCB mixtures (Aroclors). These included Aroclor 1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268.

The values reported as "less than" (<) indicate the working detection limit for the particular sample and/or parameter.

| FOR RECRA ENVIRONMENTAL LABORATORIES | Medican J. Prairie |
|--------------------------------------|--------------------|
| DATE _                               | 12/7/83            |

845990033

1.D. #83-1138

STORAGE OF CAMBURATION OF

### ANALYTICAL RESULTS

## CECOS INTERNATIONAL, INC. GAS CHROMATOGRAPHY QUALITY CONTROL

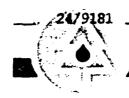
Report Date: 12/7/83

### PCB RECOVERY ANALYSIS OF METHOD BLANK

|                |       | 27 24 10 11 1 |          |
|----------------|-------|---------------|----------|
| COMPOUND       | ng OF | ng            | */<br>** |
| IDENTIFICATION | SPIKE | RECOVERED     | RECOVERY |
| Aroclor 1242   | 1.0   | 1.2           | 120      |

| FOR | RECRA | ENVIRONMENTAL | LABORATORIES | Melviak & Brazus |  |
|-----|-------|---------------|--------------|------------------|--|
|     |       |               |              | 12/7/33          |  |

ELCHA POVIDORIO NO LA CORATORIO.



February 3, 1984

The Westinghouse Electric Company 95 Orange Street Newark, New Jersey 07102

Attention: Mr. C. J. Michellini

Dear Mr. Michellini:

CECOS Environmental, Inc. would like to thank you for the opportunity to assist Westinghouse in the environmentally safe closing of the Newark facility.

Services that were provided by CECOS are outlined below. Please refer to the enclosed map (see Appendix 1) for locations referred to by floor number and building letter codes. A table at the end of this report lists material descriptions, disposal methods, and product codes.

Broken tiles containing enveloped asbestos in areas J5, C3, D3, H3, F3, C2, D2, and H2 were vacuumed or swept up. Speedi-dri and other inert material contaminated with oil was vacuumed or swept up. Any residual oil was soaked up with fresh speedi-dri and removed. This procedure was used in areas F2, I2, and between H2 and D2.

Asbestos fire curtains in the basement of R Building and in A2 were removed and included in lab packed drums. See Appendix 2 for information on lab packs.

Vapor degreasers which used 1,1,1,-Trichloroethane in areas O1 and I1 were scraped and the residual was removed.

The floor of the northwest corner of Nl and the floor of the laboratory in J5, along with the floor of Il, were steam cleaned with a five percent solution of Penetone cleaner and water.

The floor and table tops of the laboratory in J1 were wiped or mopped with a five percent solution of Penetone cleaner and water, and then rinsed.

Paint spray booths in Rl and Nl were scraped, then the paint residue and sludge were removed.

Oven bricks in F3, which contained enveloped asbestos, were removed.

Three oil basins in N1 containing oil, metal shavings, and absorbent, were scraped. The residue was solidified and drummed.

Ferric Chloride dust on the floor of the southeast corner of D3 was swept up, then the floor was mopped with a five percent solution of Penetone cleaner and water and, finally, rinsed.

The CECOS team removed all material from the entire building and outside storage yard that was considered to be hazardous waste as defined by the Code of Federal Regulations (CFR 40 Part 261 and CFR 49 Parts 171 and 172). These materials were collected in area Rl and packaged according the the CFR 49 Parts 171, 172, and 177.

Any material in containers of five gallons or smaller were consolidated into compatible groups and lab packed. Please refer to Appendix 2 for details on lab packing. Material in containers larger than five gallons were shipped in their original containers or repackaged.

Due to the toxic nature of three fifty-five gallon drums of Benzene and two hundred pounds of Sodium Cyanide special precautions must be taken to insure correct disposal methods and compliance with all local and federal laws. As a result, these materials must remain at the Newark facility until they are approved for disposal.

One 55 gallon drum of Endox L76, two 55 gallon drums of Bonderite D108 replenisher, and a drying booth contaminated with zinc, nickel, aliphatic hydrocarbons and cyanide must also remain at the Newark facility. These items were only discovered or brought to the attention of CECOS late in the plant closing. The approval procedure for these items is being rushed and, upon approval, they will be removed. Please be assured that every effort is being made to expedite the removal of these materials.

Following is a list of material descriptions, disposal methods, and product codes of hazardous wastes that have been removed from the Westinghouse Newark FAcility:

| Material  | Disposal Method   | Product Code        |
|---|---|---------------------|
| Empty drums once containing machine and cutting oil | Crushed and landfilled at CECOS International's Secure Chemical Management Facility (SCMF) EPA ID #NYD080336241 | 9181-001-A          |
| Machine oil sludge (solidified)                     | Drummed and landfilled at the SCMF  | 9181-001-B          |
| 1,1,1,-Trichlorcethane                              | Peclamation   | 9181-001-C          |
| Trichloroethylene                                   | Reclamation   | 9181 <b>-</b> 001-D |
| Toluene   | Incineration  | 9181-001-E          |

| Material  | Disposal Method                | Product Code                 |
|---|--------------------------------|------------------------------|
| Xylene  | Incineration                   | 9181 <b>-</b> 001 <i>-</i> G |
| Acetone   | Incineration                   | 9181-001-H                   |
| Lab pack  | SCMF                           | 9181-001-J                   |
| Solidified paint sludge   | SOMF                           | 9181-001-K                   |
| Nickel chloride, steel, and brass   | SOMF                           | 9181-001-L                   |
| Parts from nickel plating tank  | SOMF                           | 9181-001-M                   |
| Empty drums once containing caustic soda or phosphoric acid                             | Crushed and buried at SCMF     | 9181-001-R                   |
| Anchor wash   | Waste Water Treatment          | 9181-001-X                   |
| Nitric acid   | Waste Water Treatment          | 9181-001-Z                   |
| Phosphoric acid   | Waste Water Treatment          | 9181-001-AE                  |
| Hydrochloric acid   | Waste Water Treatment          | 9181-001-AG                  |
| Sulfuric acid   | Waste Water Treatment          | 9181-001-AH                  |
| Lacquer thinner   | Incineration                   | 9181-001-AJ                  |
| Sodium hydroxide  | SCMF                           | 9181-001-AK                  |
| Kerosene  | Incineration                   | 9181-001-AL                  |
| Machine and cutting oil (pumpable)  | Fuels blending and reclamation | 9181-001-AM                  |
| Asbestos  | SOMF                           | 9181-001-AR                  |
| Sodium cyanide  | Waste Water Treatment          | Pending                      |
| Benzene   | Incineration                   | Pending                      |
| Bonderite D18CR   | Waste Water Treatment          | Pending                      |
| Endox L76   | Waste Water Treatment          | Pending                      |
| Drying booth contaminated with<br>zinc, nickel, aliphatic hydro-<br>carbons and cyanide | SOMF                           | Pending                      |

All materials were, or will be, shipped in compliance with CFR 49 Parts 171, 172, and 177. Upon removal of the pending material an inventory and amount of each product shipped and disposed of will be sent to Westinghouse's Environmental Affairs Department.

Sincerely,

CECOS Environmental, Inc.

Nicholas J. Prevosti Project Supervisor

NY-NJ Metropolitan Branch

NJP:kb Attachment

cc: W. Becker (Westinghouse)

K. Webster J. Boccuzzi

Exhibit A Manufacturing Process Information



Measurements Divisions

95 Orange Street Newark, N. J. 07101 Telephone: (201) 465-0222

#### Baron Blakeslee Conveyor Type Steam | Heated Vapor Degresser

PRIVILEGED

VEM-004, Supplemental Data

A free board chiller coil will be added in the degresser.

Externally, a chiller unit will be installed to provide the necessary cooling.

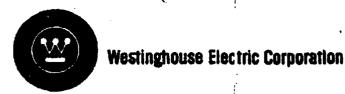
Additional work will include draining and flushing the system, replacing contaminated piping, adjusting thermostat, etc. The water separator will be cleaned and a heat exchanger added.

Overlapping flaps and front doors will be added.

The still will be modified to accommodate trichloroethane.

The second of th

832/8016089



Measurements Division

yş Orange Sirvet Newark, N. J. 07101 Teleplane: (201) 465-0222

#### Semi-Automatic Open Top Degreaser

VEM-004 Supplemental Data



A free board chiller coil will be added in the degresser.

Externally a chiller unit will be installed to provide the necessary cooling.

Additional work will include draining and flushing the system, replacing contaminated piping, adjusting thermostats, etc. The water superator will be modified and cleaned and a heat exchanger will be added.

The tank sides will be extended up to provide .75 free board ratio, the piston operated carrier will be rebuilt to fit inside the . chiller coil and an overlapping flap type housing will be built over the superstructure to enclose the tank top.

The still used with this equipment will be cleaned and modified.

832/8016090

845990041

### Westinghouse

∠/IASTER COPY RETURN TO FILE

ELECTRIC CORPORATION

Process Specification 292760 (Stating Dash Number)

1st Rev.: August 25, 1961

### (37)

#### INKS FOR INSTRUMENT AND METER RECORDING TYPE APPARATUS

SAFETY REQUIREMENTS: See Safe Practice Data Sheets A-9, A-8,

| Designation | User | Former Specification | Description   |
|-------------|------|----------------------|---------------|
| 292760-1    | NE   | 115217               | Red ink       |
| -2          | NE   | 290869               | 11 14         |
| -3          | NE   | 290921               | <b>11</b> •1  |
| -4          | NE   | 115465               | 14 11         |
| <b>-</b> 5  | NE   | 290295               | 41 41         |
| -6          | NE   | 290506               | 41 <b>56</b>  |
| -7          | NE   | 115463               | 11 11         |
| - <b>8</b>  | NE   | 115464               | 11 11         |
| -9          | NE   | 185321               | Green ink     |
| -10         | NE   | 290477               | 11 11         |
| -11         | NE   | 290478               | <b>4</b> F 11 |
| -12         | NE · | 240278               | <b>11 19</b>  |
| -13         | NE   | 290761               | 11 11         |
| -14         | NE   | 240211               | 11 11         |
| -15         | NE   | 115480               | <b>89 19</b>  |
| -16         | NE   | 290100               | Blue ink      |

-17,18,-19 SEE ATTACHET.

1. MIXING (SEE TABLE I FOR FORMULAS):

292760-1: Put alcohol 51100BA00A (5635) (SPDS A-9) and distilled water into a 5 gal bottle (Corning #710). Add glycerin 51100EJ00A (1746-1) until bottle is filled to batch mark. Add dyes to bottle. Mount a 2 in. dia, 4 bladed stirrer within 1 in. of bottom of bottle and mix at high speed for 5 minutes. Stop and remove stirrer. Stoppe: bottle and shake bottle to wash down any dye from inside neck. Remount stirrer and con tinue mixing for 10 minutes additional. Remove stirrer. Stopper bottle and place bottle in storage. Record date of manufacture.

292760-2,-4,-5,-9,-10,-11,-12,-13: Weigh glycerin 51100EJ00A (1746-1) into a 4000 cc beaker. Add alcohol 51100BA00A (5635) (BPDS A-9), distilled water, and acetic acid 5100IAECOA (6491-1) (SPDS A-8) if required. Add dyes. Mount a 2 in. dia, 4 bladed stirrer within 1 in. of bottom of beaker and mix at high speed for 15 minutes. Be sure that all dyes are incorporated into ink. Transfer ink into a 1 gal, brown bottle S#1340233, stopper bottle and place bottle in storage. Record date of manufacture.

292760-3: Put alcohol 51100RAOOA (5635) (SPDS A-9) and glycerin 51100EJOOA (1746-1) in a 5 gal bottle (Corning #710). Add distilled water until bottle is filled to batch man Add dye and gum arabic to bottle. Mount a 2 in. dia, 4 bladed stirrer within 1 in. of bottom of bottle and mix at high speed for 5 minutes. Stop and remove stirrer. Stoppe

Printed in U.S.A.

PB 29276

bottle and shake bottle to wash down any dye from inside neck. Remount stirrer and continue mixing for 55 minutes additional. Remove stirrer. Stopper bottle and place bottle in storage. Record date of manufacture.

292760-5,-16: Put alcohol 51100BA00A (5635) (SPE A-9) if required, glycerin 51100EU (1745-1) and acetic acid 51001AE00A (6491-1) (SPES A-8) if required, into a 5 gal bot (Corning #710). Add distilled water until bottle is filled to batch mark. Add dyes bottle. Mount a 2 in. dia, 4 bladed stirrer within 1 in. of bottom of bottle and mix high speed for 5 minutes. Stop and remove stirrer. Stopper bottle and shake bottle wash down any dye from inside neck. Remount stirrer and continue mixing for 10 minute additional. Remove stirrer. Stopper bottle and place bottle in storage. Record date of the manufacture.

292760-7,-8,-14,-15: Put acetic acid 51001AE00A (6491-1) (SPDE A-8) if required, into 4000 cc beaker. Add alcohol 51100BAQOA (5635) (SPDS A-9) and dyes. Mount a 2 in. dis 4 bladed stirrer within 1 in. of bottom of beaker and mix at high speed for 15 minutes Be sure that all dyes are incorporated into ink. Transfer ink into a 1 gal, brown bottle 8#1340233, stopper bottle and place bottle in storage. Record date of manufacture.

#### 2. STORING:

2.1 Age all inks at room temperature for 28 calendar days.

#### 3. PILITERING:

292760-1,-3,-6,-16: Siphon ink within 1/2 in. of bottom of storage bottle. Wash storage bottle thoroughly with 3 rinses of hot water. Filter ink three times through fine porosity Dynel filtering element mounted in a Sethco Filter Pump, Model ISIN-5.

292760-4,-5,-10,-12,-13: Filter ink through #40 Whatman filter paper, using a Buchne funnel and vacuum. Wash storage bottle thoroughly with three rinses of hot water.

#### 4. BOTTLING AND LABELING:

#### 4.1 WASHING BOTTLES:

- 4.1.1 Place forty-eight 2 fl oz bottles in a rack. Place cover on rack and secure with thumb screw nuts. Immerse in upright position, in hot water until bottles are full. Remove, invert rack, and allow bottles to drain. Repeat three times in fresh, hot water.
- 4.1.2 All other sizes of bottles shall be washed separately three times in fresh, hot water, drained on a peg board rack and replaced upright in a carton.
- 4.2 BOTTLING: Fill all styles of inks three at a time by the use of an Ertel Portable Vacuum Bottle Filler. The unit is supplied with 2 handles, one of which will handle up to 2 fl oz bottles and the other over 2 fl oz. In the event of quart bottles, stopper middle spout and fill 2 bottles at a time.

4.3 LABELING:

- 4.3.1 Pack ink according to Dwg 982252.
- 4.3.2 Remove falled bottle from rack or carton, inspect for fill and put so cap or dropper cap on. Label bottle and place in a carton stamped withe ink style, if required. Place in a shipping carton.
- 4.3.3 Stamp date of bottling watthour meter inks on label and on carton, if required.

\_ & \_

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| 9  |
| H  |

|                  |         | 952             |  |            |            | 7.3             | C)     | m 2         | 7 2         | -5<br>Rec                             | -6<br>Rec. | -7<br>Reć | ec.        |
|------------------|---------|-----------------|--|------------|------------|-----------------|--------|-------------|-------------|---------------------------------------|------------|-----------|------------|
|                  |         | 10100           |  |            |            |                 |        | 100         | 1 0.2       |                                       | F 6-3      |           |            |
|                  |         | Porrise Size    |  |            |            | 185             | 7      | 7 (6.1      |             | , , , , , , , , , , , , , , , , , , , |            | 1         | 1          |
|                  |         | Formula:        |  | SEPTS      |            |                 | ı      | •           | ,           | •                                     |            |           |            |
|                  |         |                 | ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )    | ,          | 딥          | 13265           | 1635   | 3           | <b>8</b> 80 | )<br>(2)                              | 8          | •         | •          |
|                  |         | Glycerin        | STICOFFICE (1/40-1)                        |            | CT ALL     | \$1 <b>.191</b> | याद्ध  | 8           | ZZ<br>ZZ    | <b>5</b> 20,                          | <b>1</b> 2 |           |            |
| Lu Bene          | Ą       | Red Tree        | 1-6742) AOLANOF 345                        | *          | t          | ğ               | 8      | <b>9</b> 2  | •           | • 1                                   | •          | ğ         | Si<br>Si   |
| methore          | - Lake  | Red Dve         | 3463CA31CA (2479-2)                        |            |            | ·               | •      | •           | ĸ           | \$6.5                                 | ह्य        | ,         | •          |
| 71 ,             |         | Arrest ne Dwe   | PAGE DE A JOA                              |            | t          | •               |        | •           | •           | •                                     | • .        | ij        | • 9        |
| atalical:        | ė       | Alechal         |  | <b>6-V</b> | 뎔          | ģ               | या     | 550         | 8           | ä                                     | ት<br>ት     | 3123      | 3785       |
|                  |         | Acet'e Acid     |  | 94         | t          | •               |        | •           | 의           | 13.5                                  | ช.         | ෂ         | ٠          |
|                  | •       | 1               | (a 910) 10124(0500-                        | None       |            | •               | •      | <b>8</b> X  | •           | •                                     |            | •         | •          |
| 7.4.4            |         | Yellor Dye      | 34640ABICA                                 | •          | <b>5</b> . | . 8             | ,      | 1 1 1       | សន្ទ        | . đ                                   | 145        | •         | • (        |
|                  |         | Pistilled Water | 343  |            | 7          | 377             | COT    | 75.37       |             | 7,2                                   | 200        |           |            |
|                  |         | So Grat 25 C    | (11.5)                                     |            |            | •               | •      | •           | 1.180-1     | 1                                     | •          | •         | •          |
|                  |         | V.sc. Demiler   | Visc. Bermler Cup 0 at 25 C (TIF), seconds | seconds    |            | •               | •      |             | 11.6-344.5  | •                                     | •          | •         | ٠          |
|                  |         | •               | •  |            |            |                 |        |             |             |                                       |            |           |            |
|                  |         |                 |  |            |            |                 |        |             |             |                                       |            |           |            |
|                  |         | 202760          |  |            |            | 9               | OT-    | -11         | -12         | 13                                    | -14        | -15       | -16        |
|                  | •       | Cc lor          |  |            |            | Green           | Greec  | Green       | Oreen       | Gree                                  | Oreen      | Cree      | Dive       |
|                  |         | The State       | •  |            |            | 13              | 1 641  | 1 (4)       | 1 041       | 1 Gel                                 | 1 Ge 1     | 1 621     | 5 Ge :     |
|                  |         | 3770 37701      |  |            |            |                 |        |             |             |                                       |            |           |            |
|                  |         | नं              |  |            | 7          | 2,463           | 180    | 18:5        | 260         | 516                                   | •          | •         | 3685       |
|                  |         | Glycerin        | 51100EJDCA (1746-1)                        | Kone       |            | 45              | SSS    | त्र<br>इ.स. | XIQ<br>XX   | (%                                    | •          | •         | 109        |
| ì                | ć       | Green Date      | 24650AA10A (1750-1)                        | ŧ          | ŧ          | 15.<br>E. E.    | 15     | 15.5        | 15          | • ,                                   | 12t        | 156       | •          |
| OH WHEN          | ۲.<br>م | Green Me        | 346504510A (1750-2)                        | <b>t</b> : | <b>*</b> 1 |                 | , ;    | •           | •           | (r)<br>-4                             | į į        | •         |            |
|                  |         | AUTHOR De       |  |            | • ,        | , ;             | ન {    | . ;         | . §         | ij                                    |            | 3.7Br     | )          |
|                  |         | Alcotol         | _  | 67         | 귊          | Ë               | 3      | 7           | 3           | 3                                     | 3(5)       | 3         | . 3        |
| ع <b>اء</b> رسان | لۇ<br>ل | Blue Dre        | 346604=10A (6274-1)                        | e die      |            | •               | 4<br>1 | •           | ָרָ בְּ     | ।<br>। न                              | . 6        |           | <b>1</b> 2 |
|                  |         | Jantie Action   |  | 9          | <b>a</b>   | ٠               | •      |             | 4 F         | 기기                                    | ,          |           | } ,        |
|                  |         | Tellow Dye      | TOTAL TOTAL                                |            | 1          | 3080            | 1500   | 1835        | 1000        | <b>25</b> 75                          | ٠          |           | 15200      |
|                  |         | St. Gr. at 25 C | : (TT)                                     |            |            | 1.183           | 1.123  | 1.127       | 1.175       | 1.02                                  | •          | •         | •          |
| 84               | P       | 惧               |  |            |            | ei i            | 2.5    | , i         | <br>        | <b>;</b>                              |            |           | . ,        |
| 45               | 8 8     | Riveprint       |  |            |            | P,              | 1      | 2           | ₹.          | •                                     | ı          | 1         | ı          |

PB 292/60

845990045 1680 MG んなび SAL DE KED 30E0 MA SIM THOM. 1911 289 R.T. RED <u>ر</u> ا GARTRIDE 158/185/ 27099 4 5MV CALBUR 162 0982252 For Sizes (Section 1) 名を込み Settles #6 3/EaB" ComPaus 35 #ENNE RED DIE CROCEN SCARLET MOO 90 tuck FORMALDEHADE SIDE EP Pecara Sirontifical 12/VEDYG 34 660 HP 10A WORK SHEET
WESTINGHOUSE FORM 8295 E XEFER 16 700. SIICO EICOA MIXING EQUIPMEN DISTILLED WATER 28 100 ERTEL FILTEL: -125R: -292760 Total Ma. STORE: -Borne GLYCERAN METHYL FORMULA



file nework der Orders.

PRIVILECT

#### State of New Jersey

### DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL QUALITY JOHN FITCH PLAZA, CN027, TRENTON, N.J. 08625

IN THE MATTER OF (WESTINGHOUSE ELECTRIC CORP.,)
RELAY INSTRUMENT DIVISION (METAL)

ADMINISTRATIVE CONSENT ORDER

The following FINDINGS are made and ORDER issued pursuant to the authority vested in the Commissioner of the New Jersey Department of Environmental Protection and duly delegated to the Assistant Director, Enforcement Branch, Division of Environmental Quality pursuant to N.J.S.A. 13:1B-5, N.J.S.A. 13:1D-1 et seq., and N.J.S.A. 26:2C-1 et seq. (the Air Pollution Control Act 1954), and amendments made thereto.

#### FINDINGS

1. A conference was held between the Department of Environmental Protection (hereinafter, "the Department") and Westinghouse Electric Corporation, Relay Instrument Division (hereinafter, "the Corporation") under the authority of N.J.S.A. 26:2C-14 to discuss the provisions of the regulations set forth for emissions in N.J.A.C. 7:27-8.1 et seq. which codes do not set forth speci-

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fic limits to the atmosphere and N.J.A.C. 7:27-16.1 et seq. which codes do set forth specific limits for emissions to the atmosphere.

- 2. The parties are desirous of adjusting their differences and both parties have agreed to the form and content of this Order which is issued pursuant to the provisions of N.J.S.A. 26:2C-14.
- 3. The parties hereto agree to the disposition of this matter in this manner without any admission by the Corporation of any of said alleged and/or potential violations of N.J.A.C. 7:27-8.1 et seq. and N.J.A.C. 7:27-16.1 et seq.

NOW, THEREFORE, IT IS ORDERED AND AGREED:

with N.J.A.C. 7:27-8.1 et seq. and N.J.A.C. 7:27-16.1 et seq. at the premises known as 95 Orange Street, Lot 40, Block 47, Newark City, Essex County, New Jersey no later than March 15, 1983 and that the Corporation take measures in compliance with N.J.A.C. 7:27-8.1 et seq. and N.J.A.C. 7:27-16.1 et seq., including but not limited to the following schedule for controlling the emissions from the (2) Open Top Vapor Degreasers and the Conveyorized Vapor Degreaser.

**845990047** 832/8016162 WESTINGHOUSE ELECTR. CORP RELAY INSTRUMENT DIVISION PAGE 3

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#### CEDELLARGE

|   | TTEM | •• | TO BE COMPLETED B |
|---|------|----|-------------------|
| • |      |    |                   |

- A. Complete the engineering study and evaluate the proposals.
- .

August 1, 1982

B. Select the air pollution control equipment and submit the Permit to Construct and Certificate to Operate application(s).

August 15, 1982

C. Purchase the air poilution control equipment after Departmental approval of permit to construct.

November 1, 1982

D. Complete the installation of the air pollution control equipment, start-up and debug the entire system.

March 15, 1983

- 5. Should compliance with any of the completion dates provided herein be prevented by a cause or causes beyond the control of the Corporation (e.g. equipment delays or delays by third parties acts of God or other similar delays), then upon prompt written notice to the Department, the parties shall adjust the schedule for compliance to the extent necessary by such cause or causes.
- 6. The Corporation shall maintain and operate all source equipment and air pollution control devices, currently in use, in a manner consistent with the Corporation's approved operating certificate()
- 7. The Corporation shall submit to the Department by August 15, 1982 and thereafter by the fifteenth of every month, a detailed report describing the progress of its air pollution control activities within the terms of this Administrative Consent Order.

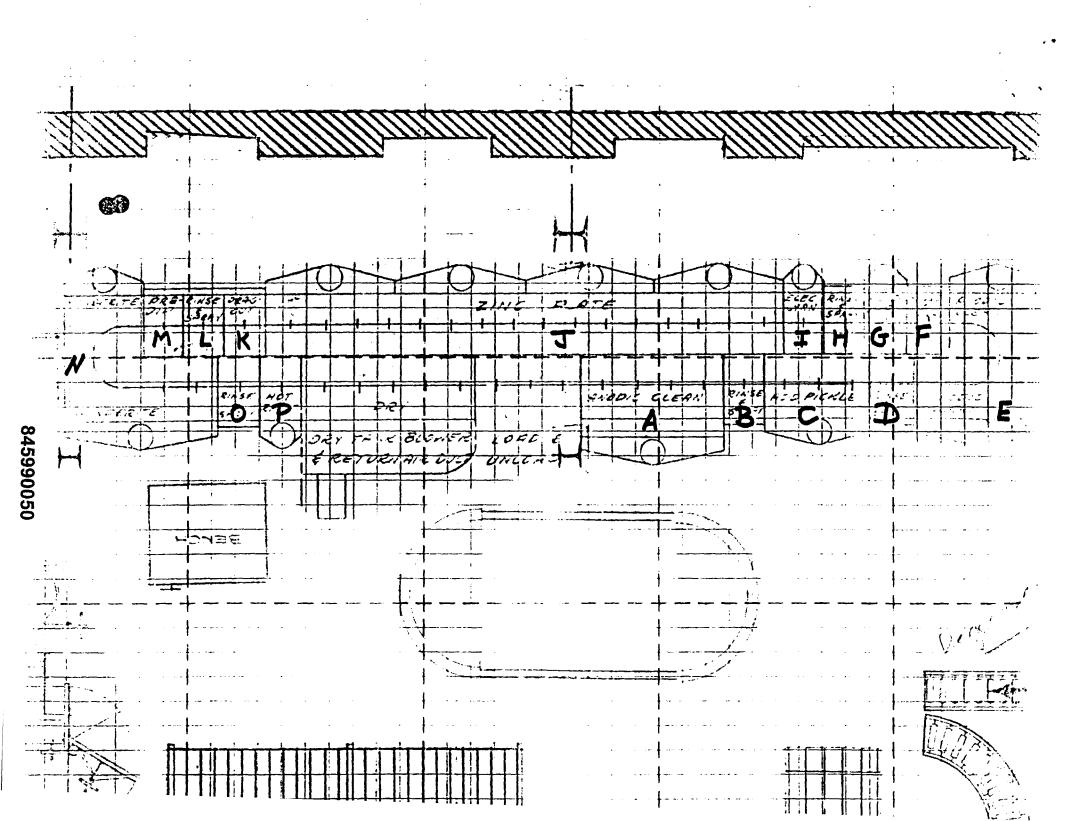
WESTINGHOUSE ELECTR. CORP RELAY INSTRUMENT DIVISION PAGE 4

DATED

#### PRIVILECED

8. WESTINGHOUSE ELECTRIC CORP., RELAY INSTRUMENT DIVISION hereby consents and agrees to comply with all terms and provisions of this Administrative Consent Order which shall be fully enforceable in the Superior Court of New Jersey upon the filing of a summary action for compliance pursuant to N.J.A.C. 7:27-8.1 et seq. and N.J.A.C. 7:27-16.1 et seq., and also may be enforced in the same fashion as an Administrative Consent Order issued by the Department pursuant to this same statutory authority. WESTING-HOUSE ELECTRIC CORP., RELAY INSTRUMENT DIVISION hereby waives the right to an administrative hearing as provided in N.J.S.A. 26:2C-14.1 or as otherwise provided.

| DRI ED        | Thomas A. Pluta, Assistant Dire<br>Division of Environmental Quali<br>Enforcement Branch |
|---------------|--|
| DATED 7/27/82 | BY: FOR THE CORPORATION  |
|               | CASIMICO J. MICHELIN, JR. NAME (PRINT OR TYPE)   |
|               | PLONT MUNDGER  |





#### OF ENVIRONMENTAL PROTECTION

#### BUREAU OF AIR POLLUTION CONTROL

# APPLICATION FOR PERMIT TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUS OR EQUIPMENT AND CERTIFICATE TO OPERATE CONTROL APPÄRATUS OR EQUIPMENT

Source Emissions And Source Data Form (Complete this form for each source and submit

|           | ·   | 991917     | ch protestion i | UM VERTOS                               | ·                             |                     |                        |
|-----------|---|------------|-----------------|---|-------------------------------|---------------------|------------------------|
|           | SOURCE INFORMATION  1. Source Description 1 -         | Steam Trea | itment Mac      | chine, Lind                             | berg Cat #                    | 9528                |                        |
| SECTION E | 2. Operating Schedule                                 | 4          | -               | 960                                     |                               | 1980                |                        |
| 2         | İ   | Hours/Day  |                 | wrs/Year                                |                               | Operation Start     | ny Dote                |
| ₩.        | 3. % Annual Production Throu                          | ghput      | 26              | 26<br>Agrahma                           | July-Best.                    | 24<br>OstaDos       |                        |
|           | By Quarter  |            | Jen-Mer.        | Source Dis                              |                               | Det/Det.            |                        |
|           | 4. Volume Of Gas Discharged From This Source (ACFM)   | 800        |                 | Temperatu                               |                               | 7                   |                        |
| SECTION F | CONTROL APPARATUS ON Primury None Secondary           |            |                 | pitel<br>Dollers)                       | Annual Op<br>Cost (De         | pereting<br>piters) | No. of Sov<br>Connecte |
| Š         | Tertiery  |            |                 |   |                               |                     |                        |
| ·         | CONTAMINANTS FROM CONTAMINANT NO Sunnycrest 112 (Unco | ME         | Contr.<br>0.14  | olene w/e<br>pi (ley-/w.)<br>14   Ds/hr | Emissions w<br>Control (lbs./ | m.)                 | Determined<br>Samples  |
|           | straight distilled r                                  | naphthenic | whe             | n in                                    |                               |                     | Weighed                |
| SECTION G | base oil)   |            | oper            | ration                                  |                               |                     |                        |
| SE        |   |            |                 |   |                               |                     |                        |
|           |   |            |                 |   | 832                           | /8016092            |                        |
|           | b   |            |                 | ·                                       |                               | ir d'amaire         |                        |

TO INSURE PROPER COORDINATION BETWEEN VEM- 003 AND VEM- 004 FORMS, INSERT IDENTICAL COMPANY NAME DESIGNATION OF STACK FROM VEM- 003, SIDE 1.

TOP STORY OF STORY

| Full Business Name  | Westinghouse   | Electric | Corporation |
|---------------------|----------------|----------|-------------|
| Company Designation | n of Stock (s) | Kkhaust  |             |

(over)

| in in  | troduced, excess                        | ed in a steam atmosphere<br>is exhausted.<br>va. lb/betch, 4 |                               |
|--|---|--|-------------------------------|
| 2. Total Amount                                | (X) Batch 800 A                         | vc. lb/batch 4   | hr/batch                      |
| Materials Processori                           | Continuous                              |  |                               |
| 3. Raw Materials                               | % By WL                                 |  | % By Wt.                      |
| Chat   | 99,94                                   |  |                               |
| Steel<br>"Sunnycrest 112"                      | .06                                     | 1  |                               |
| Sauli Vent                                     |   |  |                               |
| B. FUEL BURNING EQUI                           | PMENT                                   |  |                               |
| 1. Gross Hout Input (10 <sup>6</sup> BT        | (U/HR)                                  |  |                               |
| 2. Type Heat Exchange                          | Direct                                  | ☐ Indirect   | Internal Combustion E         |
|  | PRIMARY FU                              |  | DNDARY FUEL                   |
| 3. a. Type of Fuel:                            |   |  |                               |
| b. Heating Value (Btu/lb) 4. Method of Firing: |   |  |                               |
| 5. % Sulfur in Fuel (Dry): .                   |   |  |                               |
| 5. % Ash Content of Fuel (                     | Devl:                                   | •  |                               |
| 7. Amount Burned/Yr.                           |   |  |                               |
|  |   | Liquid Fuel (10 <sup>2</sup> Gel.)                           | Garage Erest 1008 Er 31       |
| unu: 6   | VID CUM ( 1978)                         | Edulo Coli (10.04%)  | Gesons Los (10.10.)           |
| C. INCINERATION                                |   |  |                               |
| 1. Type of Unit                                |   |  |                               |
| 2. Constituents of Weste (s)                   |   |  |                               |
|  |   |  | □6                            |
| 3. Waste Code 🔲 0                              | <del></del>                             | □3 □4 □5   |                               |
| 4. Amount Burned (ibs./hr.)                    |   | Type of Auxil. Fuel (If Any)                                 |                               |
| D, STORAGE FACILITY                            |   |  |                               |
|  | •                                       | % •  |                               |
| 1. Tank Contents                               |   | <u>-</u>   |                               |
| 2. Typu of Tank or Bin                         |   | Height or Length (Ft.)                                       |                               |
| 3. Capacity                                    | (103 pt.3)                              | Equivalent or Actual Diameter (                              | (Ft.)                         |
|  | (10 <sup>3</sup> Gal.)                  |  |                               |
| THE REMA                                       | AINING QUESTIONS AR                     | E TO BE ANSWERED ONLY FO                                     | R LIQUID STORAGE              |
|  |   | Storage Temp. If Not Ami                                     | =                             |
|  |   |  |                               |
|  |   | Annual Throughput (10 <sup>3</sup> Gal/Yr)                   |                               |
| 6. Method of Fill                              | Top                                     | ☐ Bottom ☐ Submer  | ged 🔲 Other (Explain B        |
| 7. Color of Tank                               | ☐ White                                 | Other Exposed to Suns  | Rays Yes No                   |
| 8. Insulation Data for insula                  | ted Tanks (Volatile Orna                |  | •                             |
| Type   | Thickness (inches)                      | nic Substances)<br>, Thormal Conductivity (B1                | TI (MO /67 <sup>2</sup> /9 8) |
| 1 7 179  | 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | · maine consequently (8)                                     | withit i f t i                |
|  |   |  |                               |
|  |   |  |                               |
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DEPARTMENT NEW JERSEY ST



#### OF ENVIKONMENTAL PROTECTION

**BUREAU OF AIR POLLUTION CONTROL** 

RECEIVED

**APPLICATION FOR** PERMIT TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATURINE EQUIPMENT 41 102 TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUSMIN SAME SAME AND CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT OF CUALITY

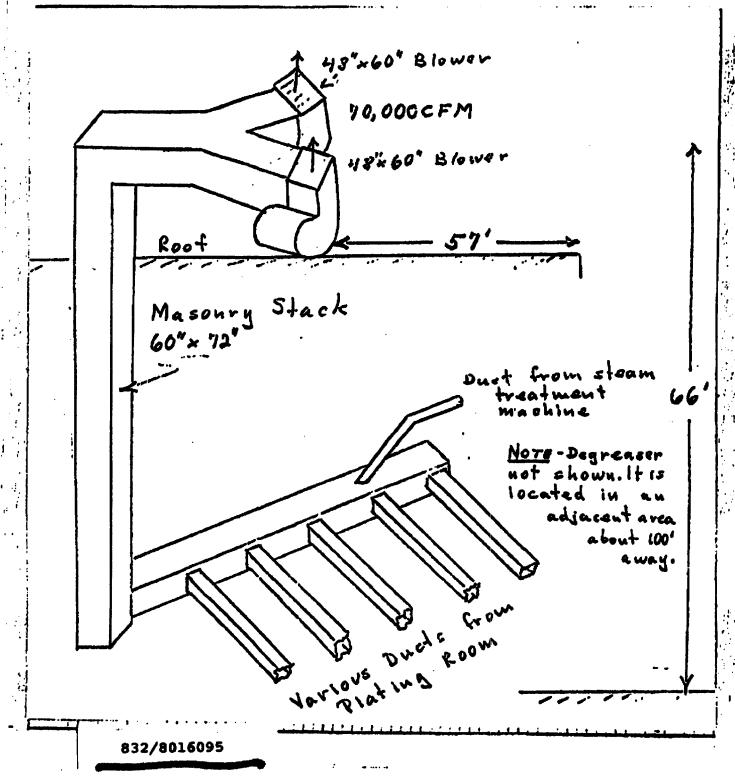
TO: New Jersey Department of Environmental Protection **Bureau of Air Pollution Control** CN-027, Trenton, NJ 08625

|           | Heed Instructions serve Con  | npieting Application                     |                                     |
|-----------|--|--|-------------------------------------|
|           | 1. Full Business Name Westinghouse Electric ( 2. Malling Address No. Street  | Corporation<br>Newark<br>City            | N.J. 07101<br>Siele Zip Cole        |
| SECTION A | 3. Division and/or Plant Name Relay-Instrument I 4. Plant Location 95 Orange St.  No. Sheet  | Newark<br>(16)                           | Ned 27101                           |
| SECT      | 5. Location of Equipment on Premises (bldg., dept., area, etc. 6. Nature of Business <u>Blactrical Manufactur</u> ; 7. Estimated Starting Date of Construction <u>Relating</u> | 108                                      |                                     |
|           | 8. Date Equipment to be put in use   | Mfg. Rngine                              | 201-643-1788<br>Telephone NV.       |
| <b>25</b> | REASON FOR APPLICATION (Check One)   |  | _                                   |
| SECTION   | New Equipment without Control Apparatus  New Equipment with Control Apparatus  New Control Apparatus on Existing Equipment  Five Year Renewal of Certificate No. (s)           | Painting Tank White                      | ing Equipment ing Control Apperatus |
| <u> </u>  | C Other (Explain) Old equipment, first appl  | ication.                                 |                                     |
|           | STACK INFORMATION (EQUIVALENT STACK INFOR  1. Company Designation of Stack (s)   |  |                                     |
| ပ         | Provious Certificate Numbers (If any)     3. a. Number of Sources Venting to this Stack54  | (Complete's separate VEM                 | 1004 (en ench envers)               |
|           | b. Number of Stacks Venting Source Operation (s)   | (Complete a separete 4 co                | POOR for span source)               |
| SECTION   | 4. Distance to the nearest Property Line (ft.) 57.   | x '12"                                   |                                     |
| N N       | 8. Discharge Height Above Ground (ft.)66'  |  |                                     |
|           | 7. Exit Temperature of Stack Gases (°F)  | 70.000                                   |                                     |
|           | 8. Volume of Gas Discharged at Stack Conditions (A.C.F.M.) 9. Discharge Directions  Horizontal   |  |                                     |
| The info  | ermation supplied on applications VEM-003 and VEM-004, included the correct.   | · · · · · · · · · · · · · · · · · · ·    | ts, is to the best of my knowledge  |
|           | Signature Com  |  | 8-12-82 *                           |
|           | P. S. Safran Neme (print dr. (ppt)   | Mfg.                                     | Rngineer Tub                        |
| This app  | lication will not be processed unless proper fee is submitted.   | FOR ASSISTANCE CALL                      |                                     |
| FOR DE    | PARTMENT USE ONLY  |  | 832/8016094                         |
| N.J.I     | I.D. STACK LOG NO.   | CT. NO.                                  |                                     |
|           |  | FEI FEI                                  | WAL JA                              |
| *T <br>t  |  | formation as reque<br>P.S. Safran 10-11- |                                     |

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SECTION D DIAGRAM INSTRUCTIONS - A diagram must be included showing ...é configuration of all stacks, control apparatus and sources related to this application. NOTE: In cases of multiple stacks, include the following information for each stack: (1) distance to nearest property line, (2) stack diameters, (3) stack height above ground, (4) exit temperature (° F) of stack gases, (5) volume rate of gases (ACFM) discharged at stack conditions, (6) the location and type of control apparatus, (7) direction of flows, and (8) maximum stack emissions.

#### Diagram



。1975年,1986年,1986年,1986年,1986年,1986年,1986年,1986年,1986年,1986年,1986年,1986年,1986年,1986年,1986年,1986年,1986年,1986年,1



### OF ENVIRONMENTAL PROTECTION

#### **BUREAU OF AIR POLLUTION CONTROL**

APPLICATION FOR

APPLICATION FOR

PERMIT TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUS OR EQUIPMENT

CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT OF

TO: New Jersey Department of Environmental Protection **Bureau of Air Pollution Control** CN-027, Trenton, NJ 08625

#### Read Instructions Before Completing Application

| 3. Division and/or Plant Name Relay-Instrument Division 4. Plant Location 95 Orange St. Newark N.J. 07 No. Street City State Zip 5. Location of Equipment on Premises (bldg., dept., area, etc.) Bldg N, 1st Floor 6. Nature of Business Manufacturing 7. Estimated Starting Date of Construction Existing 8. Date Equipment to be put in use In use now 9. Plant Contact P.S. Safran Mfg. Engr. 20/-643-1788 Name (print or type) Title Telephone No.  | 101<br>Code |
|---|-------------|
| 3. Division and/or Plant Name Relay-Instrument Division 4. Plant Location 95 Orange St. Newark N.J. 07 No. Street City State Zip  5. Location of Equipment on Premises (bldg., dept., area, etc.) Bldg N, 1st Floor 6. Nature of Business Manufacturing 7. Estimated Starting Date of Construction Existing 8. Date Equipment to be put in use In use now 9. Plant Contact P.S. Safran Mfg. Engr. 20/-643-1788 Name (print or type) Title Telephone No.   | Code        |
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| 4. Plant Location 95 Orange St. Newark N.J. 07 No. Street City State Zip  5. Location of Equipment on Premises (bldg., dept., area, etc.) Bldg N, 1st Floor  6. Nature of Business Manufacturing  7. Estimated Starting Date of Construction Existing  8. Date Equipment to be put in use In use now  9. Plant Contact P.S. Safran Mfg. Engr. 2(7) - 643-1788  Name (print or type) Title Telephone No.   |             |
| 5. Location of Equipment on Premises (bldg., dept., area, etc.)  6. Nature of Business Manufacturing  7. Estimated Starting Date of Construction Existing  8. Date Equipment to be put in use In use now  9. Plant Contact P.S. Safran Mfg. Engr. 20/-643-1788  Name (print or type) Title Telephone No.  |             |
| 7. Estimated Starting Date of Construction Existing  8. Date Equipment to be put in use In use now  9. Plant Contact P.S. Safran Mfg. Engr. 2 () - 643-1788  Name (print or type) Title Telephone No.   |             |
| 7. Estimated Starting Date of Construction Existing  8. Date Equipment to be put in use In use now  9. Plant Contact P.S. Safran Mfg. Engr. 26/-643-1788  Name (print or type) Title Telephone No.  REASON FOR APPLICATION (Check One)  |             |
| 7. Estimated Starting Date of Construction Existing  8. Date Equipment to be put in use In use now  9. Plant Contact P.S. Safran Mfg. Engr. 26/-643-1788  Name (print or type) Title Telephone No.  |             |
| 9. Plant Contact P.S. Safran Mfg. Engr. 26/-643-1788  Name (print or type) Title Telephone No.  REASON FOR APPLICATION (Check One)  |             |
| REASON FOR APPLICATION (Check One)  |             |
| REASON FOR APPLICATION (Check One)  |             |
| REASON FOR APPLICATION (Check One)  |             |
|   |             |
| New Equipment without Control Apparatus  Modification to Existing Equipment   |             |
| New Equipment with Control Apparatus Modification to Existing Control Apparatus   |             |
| New Equipment without Control Apparatus  New Equipment with Control Apparatus  New Control Apparatus on Existing Equipment  Painting Tank White   |             |
|   |             |
| Other (Explain) Old equipment, first application  |             |
| STACK INFORMATION (EQUIVALENT STACK INFORMATION)  1. Company Designation of Stack (s)   |             |
| The information supplied on applications VEM-003 and VEM-004, including the data in supplements, is to the best of my known   | wledge      |
| true and correct.   |             |
| 8-12-82   |             |
| Signature Date  |             |
| P. S. Safran Mfg. Engr.   |             |
| Name (print or type) Title  |             |
| This application will not be processed unless proper fee is submitted. FOR ASSISTANCE CALL (609) 292-6716   |             |
|   |             |
|   |             |
| FOR DEPARTMENT USE ONLY   |             |
| FOR DEPARTMENT USE ONLY  N.J.I.D. STACK LOG NO. CT. NO.   | <b>/</b>    |
|   | A           |
| N.J.I.D. STACK LOG NO. CT. NO.  | <u> </u>    |

SECTION D DIAGRAM INSTRUCTIONS - A diagram must be included showing the configuration of all stacks, control apparatus and sources related to this application. NOTE: In cases of multiple stacks, include the following information for each stack: (1) distance to nearest property line, (2) stack diameters, (3) stack height above ground, (4) exit temperature (°F) of stack gases, (5) volume rate of gases (ACFM) discharged at stack conditions, (6) the location and type of control apparatus, (7) direction of flows, and (8) maximum stack emissions.

Diagram 15,000 CFM, 80°F Blower 60' Vdylike Machine Cyclem

#### ADDITIONAL INFORMATION FOR DEGREASERS

Please refer to the sketches on the other side and complete the following.

- 1. Is the degreaser conveyorized or non conveyorized? Non-conveyorized
- 2. Is the degreaser equipped with a cover, to prevent the vapors from diffusing while not in use? One is planned.
- 3. What are the dimensions of the degreaser as itemised below?

  Length: 4'-0"

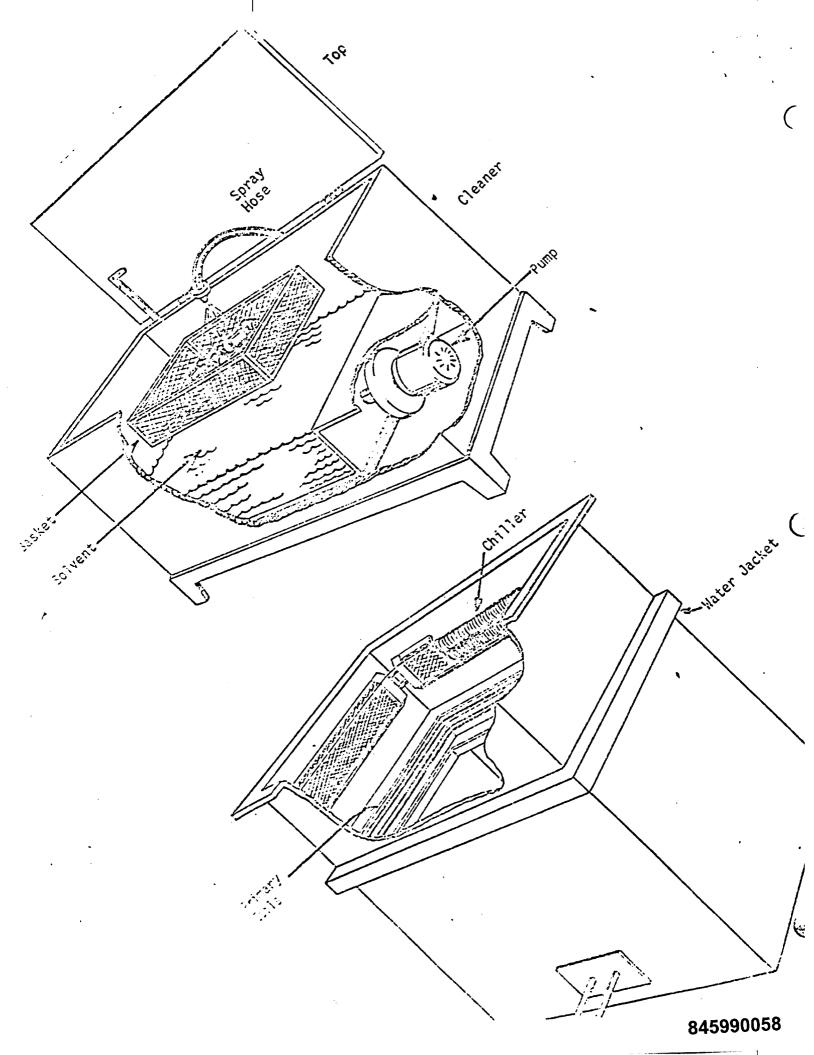
  Width: 2'-8"

  Height: 5'-0"

Freeboard Height: 1'-7" An increase to 2'-0" is planned.

- 4. Is the degreaser equipped with an agitator? No
- 5. Is there a visible high level liquid mark? Yes

  The basket carrier acts
- 6. Is the degreaser equipped with a drain rack? as drain rack.
- 7. What is the temperature (in OF) of the liquid? 165
- 8. Is there a thermostat to control the temperature of the liquid? Yes
- 9. Is it equipped with a condenser (referred to as primary coils or water jacket in the sketch) ? \_\_Yes\_\_\_\_
- 10. If the answer for item 9 is 'yes', what is the cooling area of the condenser?
  - 11. Is the degreaser equipped with spray nozzles? No
  - 12. If the answer for item 11 is 'yes', what is the pressure at the nozzles?
  - 13. Is the degreaser equipped with a freeboard chiller? One is planned.
  - 14. What is the coolant used in the chiller? 30% Ethyl 10E Glycol
  - 15. What is the temperature of the coolant?
  - 16. Is the degreaser free from the influence of a local exhaust system (hood, lip exhaust etc.) located within 36 inches from the emission points of the degreaser? Yes, present exhaust is to be eliminated.
  - 17. Is the degreaser free from the influence of a positive pressure source (fan etc.) located within 20 feet of the tank rim? \_\_\_\_\_\_\_\_\_
  - 18. If the answer for items 16 & 17 is 'no', do the emissions pass thro' any kind of control device? If so, please give details about the contr device as per the attached sheet.





#### OF ENVIRONMENTAL PHOTECTION

#### **BUREAU OF AIR POLLUTION CONTROL**

## APPLICATION FOR PERMIT TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUS OR EQUIPMENT AND

#### CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT

Source Emissions And Source Data Form (Complete this form for each source and submit with application Form, VFM-003)

| W/1011   | pplication Form Vandoc  | -,   |  |
|--|---|--|--|
| SOURCE INFORMATION  1. Source Description 1 - Semi-autom                 | matic Open Top Degro  | easer Metal Wash Mo  | del N2-48-S  |
|  |   | 1958   | tartion Duto   |
| 3. % Annual Production Throughput By Quarter 4. Volume Of Gas Dischurged | 26 26  JanMar. AprJuno Source Dis   | 24 24  July-Sept. OctDec.  |  |
| CONTROL APPARATUS ON SOURCE  Primary  Secondary  Tertiary                | Capital Cost (Dollars)  | Annual Operating<br>Cost (Dollars)   | No. of Source<br>Connected   |
| AIR CONTAMINANTS FROM SOURCE CONTAMINANT NAME Trichloroethane 1.1.1.     | Emissions w/o Consrol (lbs./hr.) . 9.0  | Emissions with Control (lbs./hr.) 4.8  | Estimated  |
|  | SOURCE INFOHMATION  1. Source Description 1 - Senti-auton  2. Operating Schedule Intermittent 8 Hours/Day  3. % Annual Production Throughput By Quarter  4. Volume Of Gas Dischurged From This Source (ACFM) 950  CONTROL APPARATUS ON SOURCE  Primary Secondary Tertiary  AIR CONTAMINANTS FROM SOURCE  CONTAMINANT NAME | SOURCE INFORMATION  1. Source Description 1 - Senti-automatic Open Top Degree  2. Operating Schedule Intermittent 8 2400  Hours/Day Hours/Year  3. % Annual Production Throughput 26 26 By Quarter JanMar. AprJuno  4. Volume Of Gas Discharged Source Discrement Trime Source (ACFM) 950  CONTROL APPARATUS ON SOURCE Capital Cost (Dollars)  Primary Secondary Control (ACFM) Secondary Control (Bos./nr.)  AIR CONTAMINANT SECONDARY Control (Bos./nr.) | SOURCE INFOHMATION  1. Source Description 1 - Senti-automatic Open Top Degreaser Metal Wash Mo  2. Operating Schedule Intermittent 8 2400 1958  Hours/Day Hours/Year Operation S  3. % Annual Production Throughput 26 26 24 24  By Quarter JanMer. AprJuno July-Sept. OctDec.  4. Volume Of Gas Discharged Source Discharge From This Source (ACFM) 950 Temperature (AF) 100  CONTROL APPARATUS ON SOURCE Capital Cost (Dollars)  Primary Secondary Tertiary  AIR CONTAMINANTS FROM SOURCE  CONTAMINANT NAME Emissions w/o Control (libs./hr.)  Emissions w/o Control (libs./hr.) |

TO INSURE PROPER COORDINATION BETWEEN VEM- 003 AND VEM- 004 FORMS, INSERT IDENTICAL COMPANY NAME A DESIGNATION OF STACK FROM VEM- 003, SIDE 1.

| Full Business Name . | Westinghouse     | Electric  | Corporation |  |
|----------------------|------------------|-----------|-------------|--|
| Company Designation  | - ut Count (a) N | l Udylite | Exhaust     |  |

| B. FUEL BURNING EQUIPMENT  1. Gross Heat Input (10 <sup>6</sup> BTU/HR)  2. Type Heat Exchange   |   | Batch 100 (Ave.)  Continuous 180 Av  By Wt.  1.5  98.5  | lb/batch, 12   | hr/batch   |
|--|---|---|--|--|
| 6. % Ash Content of Fuel (Dry):  7. Amount Burned/Yr.  Units: Solid Fuel (Tons) Liquid Fuel (10³Gal.) Gaseous Fuel (10 <sup>6</sup> Ft.³)  C. INCINERATION  1. Type of Unit  2. Constituents of Waste (s)  3. Waste Code | 1. Gross Heat Input (10 <sup>6</sup> BTU 2. Type Heat Exchange  3. a. Type of Fuel:  b. Heating Value (Btu/lb):  4. Method of Firing:   | /HR) Direct PRIMARY FUEL  | SECC   | ONDARY FUEL                                      |
| 2. Constituents of Waste (s)  3. Waste Code  | 6. % Ash Content of Fuel (Dr 7. Amount Burned/Yr Units: Sol C. INCINERATION   | y):id Fuel (Tons) L   | iquid Fuel (10 <sup>3</sup> Gal.)  | Gaseous Fuel (10 <sup>6</sup> Ft. <sup>3</sup> ) |
| 1. Tank Contents  2. Type of Tank or Bin   | 2. Constituents of Waste (s) 3. Waste Code  |   | □3 □4 □5   | <b>□</b> 6                                       |
| 1  | 1. Tank Contents 2. Type of Tank or Bin 3. Capacity  THE REMAI 4. Vapor Pressure at 70°F (P. 5. Filling Hate (Gal/Min) 6. Method of Fill 7. Color of Tank 8. Insulation Data for Insulate | (10 <sup>3</sup> Ft. <sup>3</sup> ) Ec<br>(10 <sup>3</sup> Gal.) □<br>NING QUESTIONS ARE TO<br>SIA) Anr<br>□ Top □<br>□ White □ | Height or Length (Ft.) quivalent or Actual Diameter ( BE ANSWERED ONLY FOR Storage Temp. If Not Ambual Throughput (10 <sup>3</sup> Gal/Yr) Bottom Submer Other Exposed to Suns | (Ft.)  |



#### OF ENVIRONMENTAL PROTECTION

#### **BUREAU OF AIR POLLUTION CONTROL**

# APPLICATION FOR PERMIT TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUS OR EQUIPMENT AND CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT

Source Emissions And Source Data Form (Complete this form for each source and submit with application Form VEM-003)

|           | SOURCE INFORMATION  1. Source Description 1 - Electr   | o Cleaner Tank (Design                     | nated A)  |                                |
|-----------|--|--|---|--------------------------------|
| SECTION E | 2. Operating Schedule  8  Hours/D  | 1600                                       | 1960<br>Operation Sta                           | rting Dute                     |
| S         | 3. % Annual Production Throughput By Quarter 4. Volume Of Gas Discharged From This Source (ACFM)  13 | 30 20 JanMar. AprJune  Source Di Temperate | 20 30  July-Sept. OctDec. scharge 180  ure (°F) |                                |
| SECTION F | Primary  | Cost (Dollars)                             | Annual Operating Cost (Dollars)                 | No. of Sources<br>Connected    |
| SECTION G | AIR CONTAMINANTS FROM SOURCE CONTAMINANT NAME Matawan 48W (Sodium Hydroxide)                         | Emissions w/o Constol (lbs./hr.) 0.00563   | Emissions with Control libs./hr.)               | How<br>Determined<br>Estimated |

TO INSURE PROPER COORDINATION BETWEEN VEM- 003 AND VEM- 004 FORMS, INSERT IDENTICAL COMPANY NAME AN DESIGNATION OF STACK FROM VEM- 003, SIDE 1.

| Full Business Name  | Westinghouse   | Electric  | Corporation |
|---------------------|----------------|-----------|-------------|
| Company Designation | of Stack (s) N | l Udylite | Exhaust     |

(over)

| 2. Total Amount Materials Processed 3. Raw Materials Matawan 48W Stee1  | Batch                                 | Raw Ma   |  | Vt.                |
|---|---------------------------------------|--|--|--------------------|
| B. FUEL BURNING EQU  1. Gross Heat Input (10 <sup>6</sup> )  2. Type Heat Exchange  3. a. Type of Fuel:   | Direct PRIMARY F                      |  | Internal Combus  | •                  |
| 4. Method of Firing: 5. % Sulfur in Fuel (Dry): 6. % Ash Content of Fuel 7. Amount Burned/Yr  | (Dry):                                |  | Gaseous Fuel (10   |                    |
| 2. Constituents of Waste (3. Waste Code   | s)                                    | <del></del>  | □5 □6<br>If Any)   |                    |
| D. STORAGE FACILITY  1. Tank Contents  2. Type of Tank or Bin  3. Capacity  |                                       | Height or Length   | iamoter (Ft.)  |                    |
| <ul> <li>4. Vapor Pressure at 70°</li> <li>5. Filling Hate (Gal/Min)</li> <li>6. Method of Fill</li> <li>7. Color of Tank</li> <li>8. Insulation Data for Insulation</li> </ul> | Top  White  Wlated Tanks (Volatile Or | Storage Temp. If Annual Throughput (10) Bottom Other Exposed ganic Substances) | NLY FOR LIQUID STORAGE  Not Ambient (°F)  Gal/Yr)  Submerged | xplain Belo<br>INo |
|   |                                       |  |  | <del></del>        |



#### OF ENVIRONMENTAL PROTECTION

#### BUREAU OF AIR POLLUTION CONTROL

# APPLICATION FOR PERMIT TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUS OR EQUIPMENT AND CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT

### Source Emissions And Source Data Form

(Complete this form for each source and submit with application Form VEM-003)

|           | SOURCE INFORMATION  1. Source Description 1 -  | Hydrochlo      | ric Acid '    | ľank (Desig                              | gnated C)                 |                         |                             |
|-----------|--|----------------|---------------|--|---------------------------|-------------------------|-----------------------------|
| SECTION E | 2. Operating Schedyle  | 8<br>Hours/Duy |               | 000<br>ours/Year                         |                           | 1960<br>Operation Start | iny Dute                    |
| SEC       | 3. % Annual Production Thro By Quarter 4. Volume Of Gas Discharged From This Source (ACFM) | 050            | 30<br>JanMer. | 20<br>Apr.Juno<br>Source Di<br>Temperat  |                           | 30<br>OctDec.           |                             |
| SECTION F | CONTROL APPARATUS ON Primary Secondary Turtiary  |                |               | pital<br>(Dollars)                       |                           | Operating<br>Dollars)   | No. of Sources<br>Connected |
| SECTION G | AIR CONTAMINANTS FRO CONTAMINANT N Hydrochloric Acid                                       |                | Cont          | lesions w/o<br>roi (ibs./hr.)<br>. 17395 | Emissions<br>Control (lb) |                         | How Determined Estimated    |
|           |  |                |               |  |                           |                         |                             |

TO INSURE PROPER COORDINATION BETWEEN VEM- 003 AND VEM- 004 FORMS, INSERT IDENTICAL COMPANY NAME AND ESIGNATION OF STACK FROM VEM- 003, SIDE 1.

| Full Business Name | Westinghou      | se Electric | Corporation |
|--------------------|-----------------|-------------|-------------|
| Company Designatio | on of Stack (s) | Nl Udylite  | Exhaust     |

| Materials Processed 3. Raw Materials Hydrochloric Aci   | <u> </u>   | <u>ve.                                    </u>   |   |
|---|--|--|---|
| Steel Parts   | 90   |  |   |
| B. FUEL BURNING EQU   | IIPMENT<br>BTU/HR)   |  |   |
| 2. Type Heat Exchange   | Direct PRIMARY FUEL  | Indirect   | ☐ Internal Combustion Engi  |
| b. Heating Value (Btu/ 4. Method of Firing: 5. % Sulfur in Fuel (Dry): 6. % Ash Content of Fuel 7. Amount Burned/Yr   | (Dry):   |  |   |
|   |  | Liquid Fuel (10 <sup>3</sup> Gal.)   | Gaseous Fuel (10 <sup>G</sup> Ft. <sup>3</sup> )                              |
| C. INCINERATION  1. Type of Unit  |  |  |   |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,   |  |  |   |
| 2. Constituents of Waste  | (s)  |  |   |
| 2. Constituents of Waste ( 3. Waste Code  | 2 🗀 🗀 2  | 34E  | 5 □6  |
| 2. Constituents of Waste (3. Waste Code 4. Amount Burned (lbs.//D; STORAGE FACILITY   | or.)   | □3 □4 □E<br>Type of Auxil. Fuel (If Any  | 5 □6<br>r)  |
| 2. Constituents of Waste ( 3. Waste Code  4. Amount Burned (lbs.// D, STORAGE FACILITY 1. Tank Contents   | or.)   | □3 □4 □E<br>Type of Auxil. Fuel (If Any  | 5 <u>6</u>  |
| 2. Constituents of Waste ( 3. Waste Code  4. Amount Burned (lbs.// D, STORAGE FACILITY 1. Tank Contents  2. Type of Tank or Bin   | or.)   | 34E Type of Auxil. Fuel (If Any Height or Length (Ft.)   | ; <u> </u> 6  |
| 2. Constituents of Waste ( 3. Waste Code  4. Amount Burned (lbs.// D, STORAGE FACILITY 1. Tank Contents   | or.)   | 34E Type of Auxil. Fuel (If Any Height or Length (Ft.)   | ; <u> </u> 6  |
| 2. Constituents of Waste (3. Waste Code 4. Amount Burned (lbs./id)  D, STORAGE FACILITY  1. Tank Contents 2. Type of Tank or Bin 3. Capacity  | 1  | 345 Type of Auxil. Fuel (If Any Height or Length (Ft.) quivalent or Actual Diamete   | 6   |
| 2. Constituents of Waste ( 3. Waste Code  4. Amount Burned (lbs.//  D, STORAGE FACILITY  1. Tank Contents  2. Type of Tank or Bin  3. Capacity   THE RE  4. Vapor Pressure at 70°   | (10 <sup>3</sup> Ft. <sup>3</sup> ) E  (10 <sup>3</sup> Gal.)   MAINING QUESTIONS ARE TO   | 34E Type of Auxil. Fuel (If Any Height or Length (Ft.) quivalent or Actual Diamete D BE ANSWERED ONLY F Storage Temp. If Not A   | er (Ft.)  OR LIQUID STORAGE  Imbient (°F)                                     |
| 2. Constituents of Waste (3. Waste Code 4. Amount Burned (lbs./fd.)  D. STORAGE FACILITY  1. Tank Contents 2. Type of Tank or Bin 3. Capacity THE RE  4. Vapor Pressure at 70°  5. Filling Hate (Gal/Min)   | 1  | 34E Type of Auxil. Fuel (If Any Height or Length (Ft.) quivalent or Actual Diamete D BE ANSWERED ONLY F Storage Temp. If Not A   | er (Ft.)  OR LIQUID STORAGE  Imbient (°F)                                     |
| 2. Constituents of Waste (3. Waste Code 4. Amount Burned (lbs.// D, STORAGE FACILITY 1. Tank Contents 2. Type of Tank or Bin 3. Capacity THE RE 4. Vapor Pressure at 70° 5. Filling Hate (Gal/Min) 6. Method of Fill  | (10 <sup>3</sup> Ft. <sup>3</sup> )  | Type of Auxil. Fuel (If Any  — Height or Length (Ft.)  quivalent or Actual Diamete  D BE ANSWERED ONLY F  — Storage Temp. If Not A  anual Throughput (10 <sup>3</sup> Gal/)  Bottom                            | er (Ft.)  FOR LIQUID STORAGE  Ambient (°F)  fr)  herged                       |
| 2. Constituents of Waste (3. Waste Code 4. Amount Burned (lbs.// D, STORAGE FACILITY 1. Tank Contents 2. Type of Tank or Bin 3. Capacity THE RE 4. Vapor Pressure at 70° 5. Filling Rate (Gal/Min) 6. Method of Fill 7. Color of Tank                                   | (10 <sup>3</sup> Ft. <sup>3</sup> )  | Type of Auxil. Fuel (If Any  — Height or Length (Ft.)  quivalent or Actual Diamete  D BE ANSWERED ONLY F  — Storage Temp. If Not A  mual Throughput (10 <sup>3</sup> Gal/)  Bottom   Subn  Other Exposed to Si | er (Ft.)  FOR LIQUID STORAGE  Ambient (°F)  fr)  herged                       |
| 2. Constituents of Waste (3. Waste Code 4. Amount Burned (lbs./fd D, STORAGE FACILITY 1. Tank Contents 2. Type of Tank or Bin 3. Capacity THE RE 4. Vapor Pressure at 70° 5. Filling Rate (Gal/Min) 6. Method of Fill 7. Color of Tank 8. Insulation Data for Ins       | (10 <sup>3</sup> Ft, <sup>3</sup> ) E (10 <sup>3</sup> Gal.)   MAINING QUESTIONS ARE TO F (PSIA) An Top White ulated Tanks (Volatilo Organic S | Type of Auxil. Fuel (If Any  — Height or Length (Ft.) quivalent or Actual Diamete  D BE ANSWERED ONLY F — Storage Temp. If Not A mual Throughput (10 <sup>3</sup> Gal/) Bottom   Subn Other Exposed to Se      | or (Ft.)  FOR LIQUID STORAGE  Ambient (°F)  fr)  herged     Other (Explain Be |
| 2. Constituents of Waste (3. Waste Code 4. Amount Burned (lbs./fd D, STORAGE FACILITY 1. Tank Contents 2. Type of Tank or Bin 3. Capacity THE RE 4. Vapor Pressure at 70° 5. Filling Rate (Gal/Min) 6. Method of Fill 7. Color of Tank 8. Insulation Data for Ins       | (10 <sup>3</sup> Ft, <sup>3</sup> ) E (10 <sup>3</sup> Gal.)   MAINING QUESTIONS ARE TO F (PSIA) An Top White ulated Tanks (Volatilo Organic S | Type of Auxil. Fuel (If Any  — Height or Length (Ft.) quivalent or Actual Diamete  D BE ANSWERED ONLY F — Storage Temp. If Not A mual Throughput (10 <sup>3</sup> Gal/) Bottom   Subn Other Exposed to Se      | er (Ft.)  FOR LIQUID STORAGE  Imbient (°F)  fr)  herged                       |
| 2. Constituents of Waste (3. Waste Code 4. Amount Burned (lbs./fd D, STORAGE FACILITY 1. Tank Contents 2. Type of Tank or Bin 3. Capacity THE RE 4. Vapor Pressure at 70° 5. Filling Rate (Gal/Min) 6. Method of Fill 7. Color of Tank 8. Insulation Data for Ins       | (10 <sup>3</sup> Ft, <sup>3</sup> ) E (10 <sup>3</sup> Gal.)   MAINING QUESTIONS ARE TO F (PSIA) An Top White ulated Tanks (Volatilo Organic S | Type of Auxil. Fuel (If Any  — Height or Length (Ft.) quivalent or Actual Diamete  D BE ANSWERED ONLY F — Storage Temp. If Not A mual Throughput (10 <sup>3</sup> Gal/) Bottom   Subn Other Exposed to Se      | or (Ft.)  FOR LIQUID STORAGE  Ambient (°F)  fr)  herged     Other (Explain Be |
| 2. Constituents of Waste (3. Waste Code 4. Amount Burned (lbs./fd D, STORAGE FACILITY 1. Tank Contents 2. Type of Tank or Bin 3. Capacity THE RE 4. Vapor Pressure at 70° 5. Filling Rate (Gal/Min) 6. Method of Fill 7. Color of Tank 8. Insulation Data for Ins       | (10 <sup>3</sup> Ft, <sup>3</sup> ) E (10 <sup>3</sup> Gal.)   MAINING QUESTIONS ARE TO F (PSIA) An Top White ulated Tanks (Volatilo Organic S | Type of Auxil. Fuel (If Any  — Height or Length (Ft.) quivalent or Actual Diamete  D BE ANSWERED ONLY F — Storage Temp. If Not A mual Throughput (10 <sup>3</sup> Gal/) Bottom   Subn Other Exposed to Se      | er (Ft.)  OR LIQUID STORAGE  Imbient (°F)  Or)  Other (Explain Be             |
| 2. Constituents of Waste (3. Waste Code 4. Amount Burned (lbs./s  D, STORAGE FACILITY  1. Tank Contents 2. Type of Tank or Bin 3. Capacity THE RE  4. Vapor Pressure at 70°  5. Filling Hate (Gal/Min)  6. Method of Fill  7. Color of Tank  8. Insulation Data for Ins | (10 <sup>3</sup> Ft, <sup>3</sup> ) E (10 <sup>3</sup> Gal.)   MAINING QUESTIONS ARE TO F (PSIA) An Top White ulated Tanks (Volatilo Organic S | Type of Auxil. Fuel (If Any  — Height or Length (Ft.) quivalent or Actual Diamete  D BE ANSWERED ONLY F — Storage Temp. If Not A mual Throughput (10 <sup>3</sup> Gal/) Bottom   Subn Other Exposed to Se      | er (Ft.)  OR LIQUID STORAGE  Imbient (°F)  Or)  Other (Explain Be             |



#### OF ENVIRONMENTAL PROTECTION

#### **BUREAU OF AIR POLLUTION CONTROL**

# APPLICATION FOR PERMIT TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUS OR EQUIPMENT AND CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT

#### Source Emissions And Source Data Form

(Complete this form for each source and submit with application Form VEM-003)

|           | wit   | h application Form VEM-003)               |                                   |                                |
|-----------|---|---|-----------------------------------|--------------------------------|
| SECTION E | SOURCE INFORMATION  1. Source Description 1 - Electro C  2. Operating Schedule 8  Hours/Day           | Lleaner Tank (Designato                   | ed E)  1960 Operation Sta         | rting Dute                     |
| SEC       | 3. % Annual Production Throughput By Quarter 4. Volume Of Gas Discharged From This Source (ACFM) 2050 | 30 20 JanMar. AprJune Source Disc         |                                   |                                |
| SECTION F | Primary  Secondary  Tertiary  | Capital Cost (Dollars)                    | Annual Operating Cost (Dollars)   | No. of Sources<br>Connected    |
| SECTION G | AIR CONTAMINANTS FROM SOURCE CONTAMINANT NAME Matawan 48W (Sodium Hydroxide)                          | Emissions w/o Control (libs./hr.) 0.01125 | Emissions with Control (lbs./hr.) | How<br>Determined<br>Estimated |

TO INSURE PROPER COORDINATION BETWEEN VEM- 003 AND VEM- 004 FORMS, INSERT IDENTICAL COMPANY NAME AN DESIGNATION OF STACK FROM VEM- 003, SIDE 1.

| Full Business Name  | Westinghouse  | Electric  | Corporation |
|---------------------|---------------|-----------|-------------|
| Company Designation | of Stack (s)N | l Udylite | Exhaust     |

| Materials Processed 3. Raw Materials Matawan 48W   | Continuous _18 % By Wt.               | Raw Ma   |  | % By Wt.                                    |
|--|---------------------------------------|--|--|---|
| Steel Parts  | 99.3                                  |  |  |   |
| B. FUEL BURNING EC   |                                       |  |  |   |
| 1. Gross Heat Input (10  |                                       | ☐ Indirect   | - Intere   | nal Combustion Eng                          |
| 2. Type Heat Exchange  |                                       |  | SECONDARY F  | -   |
| 3. a. Type of Fuel:  | PRIMARY F                             |  | SECONDART P  |   |
|  | u/lb):                                |  |  |   |
| •  |                                       |  |  |   |
|  | /):                                   | •  |  |   |
|  |                                       |  |  |   |
|  | Solid Fuel (Tons)                     | Liquid Fuel (10 <sup>3</sup> Gal.)                           | Grean  | us Fuel (10 <sup>G</sup> Ft. <sup>3</sup> ) |
|  |                                       | 2.42.2 / 00/ (10 Odi./                                       | <del></del>  |   |
| C. INCINERATION  |                                       |  |  |   |
|  |                                       |  |  |   |
| 2. Constituents of Waste 3. Waste Code   |                                       | □3 □4  | □5 □6  |   |
|  |                                       | Type of Auxil. Fuel (  |  |   |
| The state of the s |                                       | Type of Auxil. 1 doi:  | ,,,,,,,  |   |
| D, STORAGE FACILITY  |                                       |  | •  |   |
|  |                                       |  |  |   |
| 2. Type of Tank or Bin   |                                       | Height or Length   |  |   |
|  | (10 <sup>3</sup> Ft. <sup>3</sup> )   | Equivalent or Actual D                                       | iameter (Ft.)  |   |
| 3. Capacity  |                                       |  |  |   |
|  | (10 <sup>3</sup> Gal.)                |  |  |   |
| THE R  | EMAINING QUESTIONS                    | ARE TO BE ANSWERED O   |  |   |
| THE R  | EMAINING QUESTIONS A                  | Storage Temp. If   | Not Ambient (°F) _                                       |   |
| THE R 4. Vapor Pressure at 70 5. Filling Hate (Gal/Min   | EMAINING QUESTIONS (PSIA)             | Storage Temp. If Annual Throughput (10                       | Not Ambient (°F) _<br>Gal/Yr)                            |   |
| THE R 4. Vapor Pressure at 70 5. Filling Hate (Gal/Mir 6. Method of Fill   | EMAINING QUESTIONS (PF (PSIA)         | Storage Temp. If Annual Throughput (10                       | Not Ambient (°F) _  Gal/Yr)  Submerged □                 | Other (Explain Be                           |
| THE R 4. Vapor Pressure at 70 5. Filling Hate (Gal/Min 6. Method of Fill 7. Color of Tank  | EMAINING QUESTIONS (PSIA)  Top  White | Storage Temp. If Annual Throughput (10) Bottom Other Exposer | Not Ambient (°F) _  Gal/Yr)  Submerged □                 |   |
| THE R 4. Vapor Pressure at 70 5. Filling Hate (Gal/Min 6. Method of Fill 7. Color of Tank 8. Insulation Data for In  | EMAINING QUESTIONS (PF (PSIA)         | Storage Temp. If Annual Throughput (10) Bottom Other Exposer | Not Ambient (°F) _  Gal/Yr)  Submerged □  to Suns Rays □ | Other (Explain Be                           |



#### OF ENVIRONMENTAL PHOTECTION

#### **BUREAU OF AIR POLLUTION CONTROL**

# APPLICATION FOR PERMIT TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUS OR EQUIPMENT AND CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT

## Source Emissions And Source Data Form (Complete this form for each source and submit with application Form VEM-003)

|           | SOURCE INFORMATION  1. Source Description 1 -  | Hydrochlor     | ric Acid Ta    | ınk (Design            | nated <b>G</b> )          |                          |                             |
|-----------|--|----------------|----------------|------------------------|---------------------------|--------------------------|-----------------------------|
| SECTION E | 2. Operating Schedule  | 8<br>Hours/Day |                | OO<br>purs/Your        |                           | 1960<br>Operation Starti | ny Dute                     |
| SEC       | 3. % Annual Production Thro By Quarter 4. Volume Of Gas Discharged From This Source (ACFM) | 300            | 30<br>Jan-Mar. | 20 AprJune Source Di   |                           | 30<br>OctDec.            |                             |
| SECTION F | CONTROL APPARATUS ON Primery Secondary Tertiary  |                | Cont           | pital<br>(Dollare)     |                           | Operating<br>Dollars)    | No. of Sources<br>Connected |
| SECTION G | AIR CONTAMINANTS FRO CONTAMINANT N Hydrochloric Acid                                       |                | Contr          | ol (ibs./hr.)<br>01739 | Emissions<br>Control (lb) |                          | How Determined Estimated    |

TO INSURE PROPER COORDINATION BETWEEN VEM- 003 AND VEM- 004 FORMS, INSERT IDENTICAL COMPANY NAME AND DESIGNATION OF STACK FROM VEM- 003, SIDE 1.

| Full Business Name  | Westinghouse     | Electric  | Corporation |
|---------------------|------------------|-----------|-------------|
| Company Designation | n at Stack (c) N | l Udylite | Exhaust     |

| *This material taken from tank (C) when new additions made to tank (C)    B. FUEL BURNING EQUIPMENT  | 3. R | Materials Processed IX<br>Naw Materials<br>ydrochloric Acid *<br>teel Parts | 99                | Ave. Ib/hr<br>Rav  | v Materials          | % By Wt.              |
|--|------|---|-------------------|--|----------------------|-----------------------|
| 1. Gross Heat Input (10 <sup>G</sup> BTU/HR) 2. Type Heat Exchange   |      | Inis material taken   | TIOM LAIK (0)     | when new addition  | ons made to tal      |                       |
| 2. Type Heat Exchange  | 1    |   |                   |  |                      |                       |
| b. Heating Value (Btu/lb):   | 1    | -   | ☐ Direct          |  |                      | _                     |
| 6. % Ash Content of Fuel (Dry):  7. Amount Burned/Yr.  Units: Solid Fuel (Tons)  Liquid Fuel (10 <sup>3</sup> Gal.)  Gaseous Fuel (10 <sup>6</sup> Ft. <sup>3</sup> )  C. INCINERATION  1. Type of Unit  2. Constituents of Waste (s)  3. Waste Code | b    | . Heating Value (Stu/lb):   |                   |  |                      |                       |
| 7. Amount Burned/Yr  | 5. 9 | Sulfur in Fuel (Dry):   | <del></del>       |  |                      |                       |
| Units: Solid Fuel (Tons) Liquid Fuel (10 <sup>3</sup> Gal.) Gaseous Fuel (10 <sup>6</sup> Ft. <sup>3</sup> )  C. INCINERATION  1. Type of Unit 2. Constituents of Waste (s) 3. Waste Code  | l.   | •   |                   |  |                      |                       |
| C. INCINERATION  1. Type of Unit  2. Constituents of Waste (s)  3. Waste Code  | 7.   |   |                   |  | 2.11                 | 5 teofic. 3.          |
| 1. Type of Unit  2. Constituents of Waste (s)  3. Waste Code   |      |   | ruoi (TORS)       | Liquid Puei (10°C  | 381.7 (3             | seous ruei (10° Ft.°) |
| 2. Constituents of Waste (s)  3. Waste Code  | 1    |   |                   |  |                      |                       |
| 3. Waste Code  | 1    | •   |                   |  |                      |                       |
| 4. Amount Burned (lbs./hr.)  | 1    | _ : : -   |                   |  | LJE L                | 16                    |
| D, STORAGE FACILITY  1. Tank Contents  2. Type of Tank or Bin  | 1    |   |                   | <del></del>  |                      | =                     |
| 1. Tank Contents  2. Type of Tank or Bin   |      |   |                   | TYPE OF AUXIL. F   | uu (11 /417)         |                       |
| 2. Type of Tank or Bin   | , -  |   |                   |  | •. •                 |                       |
| 3. Capacity  | t .  |   |                   |  |                      | <del> </del>          |
| THE REMAINING QUESTIONS ARE TO BE ANSWERED ONLY FOR LIQUID STORAGE  4. Vapor Pressure at 70°F (PSIA) Storage Temp. If Not Ambient (°F)  5. Filling Hate (Gal/Min) Annual Throughput (10³Gal/Yr)  6. Method of Fill                                   | 1    |   |                   | <del>-</del>   | <del>-</del>         |                       |
| THE REMAINING QUESTIONS ARE TO BE ANSWERED ONLY FOR LIQUID STORAGE  4. Vapor Pressure at 70°F (PSIA) Storage Temp. If Not Ambient (°F)  5. Filling Hate (Gal/Min) Annual Throughput (10³ Gal/Yr)  6. Method of Fill                                  | 3. ( | Capacity  |                   | Equivalent or Actu   | ual Diameter (Ft.)   | <del></del>           |
| 4. Vapor Pressure at 70°F (PSIA) Storage Temp. If Not Ambient (°F)  5. Filling Hate (Gal/Min) Annual Throughput (10³ Gal/Yr)  6. Method of Fill  |      | TUE DEMAIN  |                   | IC TO BE ANOWERS   | D 044 V 505 + 1011   | 10 CTO 0 4 CE         |
| 5. Filling Hate (Gal/Min) Annual Throughput (10 <sup>3</sup> Gal/Yr)  6. Method of Fill  | , ,  |   |                   |  |                      |                       |
| 6. Method of Fill  | 1    |   |                   | and the second s |                      |                       |
| 7. Color of Tank   | I .  |   |                   |  |                      |                       |
| 8. Insulation Data for Insulated Tanks (Volatile Organic Substances)   | 1 '  |   | ·                 |  | _                    |                       |
|  | i    |   |                   |  | posed to Suns Rays   | ⊔Yes ∐No              |
| The trickness (menus) trickness (menus) trickness (menus)  | 101  |   | _                 |  | wheetining /DTH/HD / | CT2 PC                |
|  | i    | · ypv, 111  | ickiness (inches/ | , riterinal Cor  | aductivity (BTO/HR/  | F1"/"F)               |
|  | i    |   |                   |  |                      |                       |
|  | i    |   |                   |  |                      |                       |
|  | i    |   | <del></del>       |  |                      |                       |



#### OF ENVIRONMENTAL PROTECTION

#### **BUREAU OF AIR POLLUTION CONTROL**

# APPLICATION FOR PERMIT TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUS OR EQUIPMENT AND CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT

Source Emissions And Source Data Form (Complete this form for each source and submit with application Form VEM-003)

|           |  | *************************************** | ppiication     |  | ·  |                          |                                |
|-----------|--|---|----------------|--|--|--------------------------|--------------------------------|
|           | SOURCE INFORMATION  1. Source Description 1 -  | Electro Cya                             | anide Tan      | k (Designa                               | ted I)                                     |                          |                                |
| SECTION E | 2. Operating Schedule  | 8<br>Hours/Day                          | 16             | 00<br>urs/Year                           |  | 1960<br>Operation Starti | ny Dute                        |
| SEC       | 3. % Annual Production Thro By Quarter 4. Volume Of Gas Discharged From This Source (ACFM) |   | 30<br>Jan-Mar. | 20<br>AprJune<br>Source Dis<br>Temperatu | 20 July-Sept. charge ire ( <sup>0</sup> F) | 30<br>OctDec.            |                                |
| SECTION F | CONTROL APPARATUS ON Primary Secondary Tertiary  |   |                | pital<br>Dollars)                        |  | Operating Dollars)       | No. of Sources<br>Connected    |
| SECTION G | AIR CONTAMINANTS FRO CONTAMINANT N Sodium Cyanide Sodium Hydroxide                         |   | . <u>0.0</u>   | 03125<br>0125                            | Emissions<br>Control (lbs                  | /hr.)<br>                | How<br>Determined<br>Estimated |

TO INSURE PROPER COORDINATION BETWEEN VEM- 003 AND VEM- 004 FORMS, INSERT IDENTICAL COMPANY NAME AND DESIGNATION OF STACK FROM VEM- 003, SIDE 1.

| Full Business Name  | Westinghouse     | Electric  | Corporation |
|---------------------|------------------|-----------|-------------|
| Company Designation | n of Stack (s) N | l Udylite | Exhaust     |

|  | Total Amount  |                 | Batch   | lb/batch.  |  | hr/batch  |   |
|--|---|-----------------|---|--|--|---|---|
| 3,   | Materials Processed Raw Materials Sodium Cyanide  |                 | Continuous180<br>% By Wt.<br>0.3  |  |  |   | % By Wt.                                    |
|  | Sodium Hydroxide  |                 | 0.1   |  |  |   |   |
|  | Steel Parts   |                 | 99.6  |  |  |   |   |
| -  | FUEL BURNING EQUI   |                 |   |  |  |   |   |
|  | Gross Heat Input (10 <sup>6</sup> B   | TU/HI           |   |  | Indirect   |   | nal Combustion Engine                       |
| ۷.   | Type Heat Exchange  |                 | Direct  |  | i maneci   |   | •   |
| 3.   | a. Type of Fuel:  |                 | PRIMARY FL  |  |  | SECONDARY F                                     |   |
|  | b. Heating Value (Btu/It  |                 |   |  |  |   |   |
|  | Method of Firing:   |                 |   |  |  |   | <del></del>                                 |
|  | % Sulfur in Fuel (Dry):   |                 |   | •  |  |   |   |
|  | % Ash Content of Fuel (   |                 |   |  | . <u> </u>   | ·   |   |
| ١.   | Amount Burned/Yr  |                 | uel (Tons)  |  | 11036-17   | Geran   | us Fuel (10 <sup>6</sup> Ft. <sup>3</sup> ) |
| _  | <del></del>   | 30110 1         | -udi (Totis)  | Cidoro Lagi  | 110 Gai./  | Cateo   | 03 F 001 (10 Ft. 7                          |
|  | INCINERATION  |                 |   |  |  |   |   |
|  | Type of Unit  |                 |   |  |  |   |   |
|  | Constituents of Waste (s  |                 |   |  |  | 75 □6   |   |
|  | Waste Code 🔲 0  |                 |   | □3   | _  |   |   |
| ••   | Amount Burned (lbs./hr  | <u>'</u>        |   | I YPO OT AL  | JXII. FUEL (IT A   |   |   |
| ),   | STORAGE FACILITY  |                 |   |  |  |   |   |
| _  | Tank Contents   |                 | · · · · · · · · · · · · · · · · · · ·   |  | ·  | · .   |   |
| 1.   |   |                 |   | Height   | t or Length (F   | t.)   | ····  |
| 2.   | Type of Tank or Bin _   |                 |   |  | r Actual Diam  | neter (Ft.)                                     |   |
| 2.   | Capacity  |                 | (10 <sup>3</sup> Ft. <sup>3</sup> )   | Equivalent o   |  |   |   |
| 2.   | Capacity  |                 | (10 <sup>3</sup> Gal.)  | ·  |  | -   |   |
| 2.<br>3.   | CapacityTHE REM   | IAINII          | (10 <sup>3</sup> Gal.) 🔲<br>NG QUESTIONS A  | RE TO BE ANSV  | WERED ONL'   | Y FOR LIQUID S                                  |   |
| 2.<br>3.<br>4.   | THE REM Vapor Pressure at 70°F  | IAINII<br>(PSIA | (10 <sup>3</sup> Gal.)<br>NG QUESTIONS A<br>N)  | RE TO BE ANSV  | WERED ONL'<br>u Tomp. If No  | Y FOR LIQUID S                                  |   |
| 2.<br>3.<br>4.   | THE REM Vapor Pressure at 70°F Filling Hate (Gal/Min)   | IAINII<br>(PSIA | (10 <sup>3</sup> Gal.)  NG QUESTIONS A  | RE TO BE ANSV  | WERED ONL'<br>u Temp. If No  | Y FOR LIQUID S<br>ot Ambient (°F) _<br>al/Yr)   |   |
| 2.<br>3.<br>4.<br>5.                                       | THE REM Vapor Pressure at 70°F Filling Hate (Gal/Min)   | IAINII<br>(PSIA | (10 <sup>3</sup> Gal.)  NG QUESTIONS A  | RE TO BE ANSV Storage Annual Throu                               | WERED ONL'<br>u Temp. If No  | Y FOR LIQUID S<br>ot Ambient (°F) _<br>al/Yr)   |   |
| 2.<br>3.<br>4.<br>5.<br>6.<br>7.                           | THE REM Vapor Pressure at 70°F Filling Hate (Gal/Min) Method of Fill Color of Tank                                | IAINII<br>(PSIA | (10 <sup>3</sup> Gal.)  NG QUESTIONS A  | RE TO BE ANSV Storage Annual Throu Bottom Other                  | WERED ONL'<br>Temp. If Noughput (10 <sup>3</sup> Ga<br>Substitution Substitution Sub | Y FOR LIQUID S<br>ot Ambient (°F) _<br>al/Yr)   | Other (Explain Below                        |
| 2.<br>3.<br>4.<br>5.<br>6.<br>7.                           | THE REM Vapor Pressure at 70°F Filling Hate (Gal/Min) Method of Fill Color of Tank Insulation Data for Insulation | IAINII<br>(PSIA | (10 <sup>3</sup> Gal.)  NG QUESTIONS A  Top White  Fanks (Volatile Orga                     | RE TO BE ANSV Storage Annual Throu Bottom Other anic Substances) | WERED ONL'  Tomp. If No  Ighput (10 <sup>3</sup> Ga  Su  Exposed to  | Y FOR LIQUID Set Ambient (°F) _ sl/Yr) ubmerged | Other (Explain Below                        |
| <ol> <li>3.</li> <li>4.</li> <li>6.</li> <li>7.</li> </ol> | THE REM Vapor Pressure at 70°F Filling Hate (Gal/Min) Method of Fill Color of Tank                                | IAINII<br>(PSIA | (10 <sup>3</sup> Gal.)  NG QUESTIONS A  Top White  Fanks (Volatile Orga                     | RE TO BE ANSV Storage Annual Throu Bottom Other anic Substances) | WERED ONL'  Tomp. If No  Ighput (10 <sup>3</sup> Ga  Su  Exposed to  | Y FOR LIQUID Set Ambient (°F) _ sl/Yr) ubmerged | Other (Explain Below                        |
| <ol> <li>3.</li> <li>4.</li> <li>6.</li> <li>7.</li> </ol> | THE REM Vapor Pressure at 70°F Filling Hate (Gal/Min) Method of Fill Color of Tank Insulation Data for Insulation | IAINII<br>(PSIA | (10 <sup>3</sup> Gal.)  NG QUESTIONS A  Top White  Fanks (Volatile Orga                     | RE TO BE ANSV Storage Annual Throu Bottom Other anic Substances) | WERED ONL'  Tomp. If No  Ighput (10 <sup>3</sup> Ga  Su  Exposed to  | Y FOR LIQUID Set Ambient (°F) _ sl/Yr) ubmerged | Other (Explain Below                        |
| 2.<br>3.<br>4.<br>5.<br>6.<br>7.                           | THE REM Vapor Pressure at 70°F Filling Hate (Gal/Min) Method of Fill Color of Tank Insulation Data for Insulation | IAINII<br>(PSIA | (10 <sup>3</sup> Gal.)  NG QUESTIONS A  Top White  Fanks (Volatile Orga                     | RE TO BE ANSV Storage Annual Throu Bottom Other anic Substances) | WERED ONL'  Tomp. If No  Ighput (10 <sup>3</sup> Ga  Su  Exposed to  | Y FOR LIQUID Set Ambient (°F) _ sl/Yr) ubmerged | Other (Explain Below                        |
| <ol> <li>3.</li> <li>4.</li> <li>6.</li> <li>7.</li> </ol> | THE REM Vapor Pressure at 70°F Filling Hate (Gal/Min) Method of Fill Color of Tank Insulation Data for Insulation | IAINII<br>(PSIA | (10 <sup>3</sup> Gal.)  NG QUESTIONS A  Top White  Fanks (Volatile Orga                     | RE TO BE ANSV Storage Annual Throu Bottom Other anic Substances) | WERED ONL'  Tomp. If No  Ighput (10 <sup>3</sup> Ga  Su  Exposed to  | Y FOR LIQUID Set Ambient (°F) _ sl/Yr) ubmerged | Other (Explain Below                        |
| 2.<br>3.<br>4.<br>5.<br>6.<br>7.                           | THE REM Vapor Pressure at 70°F Filling Hate (Gal/Min) Method of Fill Color of Tank Insulation Data for Insulation | IAINII<br>(PSIA | (10 <sup>3</sup> Gal.)  NG QUESTIONS A  Top White  Fanks (Volatile Orga                     | RE TO BE ANSV Storage Annual Throu Bottom Other anic Substances) | WERED ONL'  Tomp. If No  Ighput (10 <sup>3</sup> Ga  Su  Exposed to  | Y FOR LIQUID Set Ambient (°F) _ sl/Yr) ubmerged | Other (Explain Below                        |
| <ol> <li>3.</li> <li>4.</li> <li>6.</li> <li>7.</li> </ol> | THE REM Vapor Pressure at 70°F Filling Hate (Gal/Min) Method of Fill Color of Tank Insulation Data for Insulation | IAINII<br>(PSIA | (10 <sup>3</sup> Gal.)  NG QUESTIONS All (1)  Top  White  Fanks (Volatile Organics (Inches) | RE TO BE ANSV Storage Annual Throu Bottom Other anic Substances) | WERED ONL's Temp. If No aghput (10 <sup>3</sup> Ga Exposed to hal Conductivi   | Y FOR LIQUID Set Ambient (°F) _ sl/Yr) ubmerged | Other (Explain Below                        |



#### OF ENVIRONMENTAL PROTECTION

#### **BUREAU OF AIR POLLUTION CONTROL**

# APPLICATION FOR PERMIT TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUS OR EQUIPMENT AND

#### CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT

### Source Emissions And Source Data Form (Complete this form for each source and submit with application Form VEM-003)

|           | with  | application Form VEM-003)                      |                                   |                                |
|-----------|---|--|-----------------------------------|--------------------------------|
| w<br>z    | 2 Operating Schedule  | ing Tank (Designated                           | J)<br>1960                        |                                |
| 9         | 8<br>Hours/Day  | Houn/Year                                      | Operation Starti                  | ny Duto                        |
| SECTION   | 3. % Annual Production Throughput By Quarter 4. Volume Of Gas Discharged From This Source (ACFM) 4550 | 30 20  Jan-Mar. AprJuno Source Disc            | 20 30 July-Sept. OctDec.          |                                |
| SECTION F | PrimarySecondary  | Capital Cost (Dollars)                         | Annual Operating Cost (Dollars)   | No. of Sources<br>Connected    |
| SECTION G | AIR CONTAMINANTS FROM SOURCE  CONTAMINANT NAME  Sodium Cyanide  Sodium Hydroxide                      | Emissions w/o Coptrol (tbs./hr.) 0.0075 0.0050 | Emissions with Control (lbs./hr.) | How<br>Determined<br>Estimated |
|           |   |  |                                   |                                |

TO INSURE PROPER COORDINATION BETWEEN VEM- 003 AND VEM- 004 FORMS, INSERT IDENTICAL COMPANY NAME AN DESIGNATION OF STACK FROM VEM- 003, SIDE 1.

| Full Business Name | Westingh        | ouse I | lectric | Corporation | _ |
|--------------------|-----------------|--------|---------|-------------|---|
| Company Designatio | on of Stack (s) | N1     | Udylite | Exhaust     | _ |

|                |   | Batch                                     | lb/batch,<br>Avelb/hr<br>Raw Material           |  |
|----------------|---|---|---|--|
| -              | Sodium Hydroxide<br>Steel Parts   | 99.1                                      |   |  |
| 1 -            | FUEL BURNING EQUIPME Gross Heat Input (10 <sup>6</sup> BTU/F  |   |   |  |
| 1              | Type Heat Exchange  | ☐ Direct PRIMARY FUEL                     | ☐ Indirect<br>S                                 | ☐ Internal Combustion Engin                      |
| 4.<br>5.<br>6. | a. Type of Fuel: b. Heating Value (Btu/lb): Method of Firing: % Sulfur in Fuel (Dry): % Ash Content of Fuel (Dry) Amount Burned/Yr Units: Solid | :   |   | Gasoous Fuel (10 <sup>6</sup> Ft. <sup>3</sup> ) |
| 1.<br>2.       | INCINERATION  Type of Unit  Constituents of Waste (s)  Waste Code □0  |   | □3 □4 □   |  |
|                |   | <del></del>                               |   | γ)   |
| 1.             | , STORAGE FACILITY  Tank Contents  Type of Tank or Bin  |   | Height or Length (Ft.                           | ·  |
|                | Capacity  |   |   | ter (Ft.)  |
|                | . Vapor Pressure at 70°F (PSI   | A)  |   | Ambient (°F)                                     |
| 6.<br>7.       | Method of Fill Color of Tank Insulation Data for Insulated  | ☐ Top ☐ ☐ White ☐ Tanks (Volatile Organic | ☐ Bottom ☐ Sub ☐ Other Exposed to S Substances) | Yr)Other (Explain Belo<br>Suns Rays              |
|                |   |   |   |  |
| 1              |   |   | <del>"-\</del>                                  |  |

| PRIMARY FUEL  SECONDARY FUEL  3. a. Type of Fuel: b. Heating Value (Btu/lb):   | -              |   | Continuous 180 % By Wt.                   | lb/batch,   | hr/batch   |
|--|----------------|---|---|---|--|
| 5. % Sulfur in Fuel (Dry): 6. % Ash Content of Fuel (Dry): 7. Amount Burned/Yr. Units: Solid Fuel (Tons) Liquid Fuel (10 <sup>3</sup> Gal.) Gaseous Fuel (10 <sup>6</sup> Ft. <sup>3</sup> )  C. INCINERATION 1. Type of Unit 2. Constituents of Waste (s) 3. Waste Code | 1.<br>2.<br>3. | Gross Heat Input (10 <sup>G</sup> BTU/F<br>Type Heat Exchange<br>a. Type of Fuel:<br>b. Heating Value (Btu/lb):           | Direct PRIMARY FUEL                       | SEC   | Internal Combustion Engin                        |
| 1. Type of Unit  2. Constituents of Waste (s)  3. Waste Code   | 5.<br>6.       | % Sulfur in Fuel (Dry):<br>% Ash Content of Fuel (Dry)<br>Amount Burned/Yr  |   |   | Gaseous Fuel (10 <sup>6</sup> Ft. <sup>3</sup> ) |
| 1. Tank Contents  2. Type of Tank or Bin   | 1.<br>2.<br>3. | Type of Unit Constituents of Waste (s) Waste Code   | □1 □2                                     | □3 □4 □5  | □6   |
| 4. Vapor Pressure at 70°F (PSIA) Storage Temp. If Not Ambient (°F)  5. Filling Hate (Gal/Min) Annual Throughput (10³Gal/Yr)  6. Method of Fill   | 1.<br>2.       | Tank Contents Type of Tank or Bin   | (10 <sup>3</sup> Ft. <sup>3</sup> )       | Height or Length (Ft.)  |  |
|  | 5.<br>6.<br>7. | Vapor Pressure at 70°F (PSI<br>Filling Hate (Gal/Min)<br>Method of Fill<br>Color of Tank<br>Insulation Data for Insulated | A) A  Top  White  Tanks (Volatile Organic | Storage Temp. If Not Annual Throughput (10 <sup>3</sup> Gal/Yr Bottom Subme Subme Substances) | nbient (°F)<br>r)<br>erged                       |

#### **NEW JERSEY STATE DEPARTMENT**



#### OF ENVIRONMENTAL PROTECTION

#### **BUREAU OF AIR POLLUTION CONTROL**

# APPLICATION FOR PERMIT TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUS OR EQUIPMENT AND

## CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT

Source Emissions And Source Data Form (Complete this form for each source and submit with application Form VEM-003)

|           | SOURCE INFORMATION  1. Source Description 1 - Phosphating '                        | Tank (Designated l                                | N)                                |                            |
|-----------|--|---|-----------------------------------|----------------------------|
| SECTION E | TO, A MINIORI FRANCTION FINOUSPIPEL  | 1600 Hours/Year  30 20 h-Mar. AprJune Source Disc | 1960   Operation State   20       | ting Date                  |
| SECTION F | CONTROL APPARATUS ON SOURCE  Primery  Secondary  Tertiary                          | Capital<br>Cost (Dollars)                         | Annual Operating Cost (Dollare)   | No. of Source<br>Connected |
| SECTION G | AIR CONTAMINANTS FROM SOURCE CONTAMINANT NAME Bonderite D180 (5% Phosphoric. Acid) | Emissions w/o Control (lbs./hr.) 0.02381          | Emissions with Control (lbs./hr.) | How Determined Estimated   |

TO INSURE PROPER COORDINATION BETWEEN VEM- 003 AND VEM- 004 FORMS, INSERT IDENTICAL COMPANY NAME DESIGNATION OF STACK FROM VEM- 003, SIDE 1.

| Full Business Name . | Westinghouse   | Electric  | Corporation |
|----------------------|----------------|-----------|-------------|
| Company Designation  | of Stack (s) N | l Udylite | Exhaust     |

(over)

| 2. Total Amount Materials Processed 3. Raw Materials Chromium Trioxide Phosphoric Acid Steel Parts   | Batch                               | Ib/batch,<br>AveIb/hr<br>Raw Materia  | els 9                                      | 6 By Wt.                |
|--|-------------------------------------|---|--|-------------------------|
| B. FUEL BURNING EQUITION 1. Gross Heat Input (10 <sup>6</sup> B) 2. Type Heat Exchange   | Direct PRIMARY FUEL                 | -   | SECONDARY FUEL                             | ombustion Engin         |
| b. Heating Value (Btu/lb<br>4. Method of Firing:<br>5. % Sulfur in Fuel (Dry):<br>6. % Ash Content of Fuel (<br>7. Amount Burned/Yr  | Ory):                               |   | Gasoous Fu                                 |                         |
| 2. Constituents of Waste (s) 3. Waste Code   0   |                                     | 34  | ]5 □6                                      |                         |
| 2. Type of Tank or Bin  3. Capacity  THE REM  4. Vapor Pressure at 70°F  5. Filling Hate (Gal/Min)  6. Method of Fill  7. Color of Tank  8. Insulation Data for Insulation | (10 <sup>3</sup> Ft. <sup>3</sup> ) | Height or Length (Ft. Equivalent or Actual Diame  FO BE ANSWERED ONLY  Storage Temp. If Not named Throughput (10 <sup>3</sup> Gal. Bottom Substances) | FOR LIQUID STOR Ambient (°F)  /Yr) omerged | AGE<br>er (Explain Belo |
|  |                                     | rtment Use Only   |  |                         |

### OF ENVIRONMENTAL PROTECTION .

#### **BUREAU OF AIR POLLUTION CONTROL**

# **APPLICATION FOR** PERMIT TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUS OR EQUIPMENT AND

### CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT

Source Emissions And Source Data Form (Complete this form for each source and submit with application Form VEM-003)

| ON E      | 2. Operating Schedule  | 8     |               | 500                   |   | 1960                                    |                                |
|-----------|--|-------|---------------|-----------------------|---|---|--------------------------------|
| SECTION   | 3. % Annual Production Threads By Quarter 4. Volume Of Gas Discharge From This Source (ACFN) | d 350 | 30<br>JanMar. | 20 AprJune Source Dia | 20 July-Sopt. scharge ure ( <sup>0</sup> F) | Operation Star<br>30<br>OctDec.<br>1.80 | ting Date                      |
| SECTION F | Primary Secondary Tertiary   |       |               | spital<br>(Dollars)   |   | Operating<br>Dollars)                   | No. of Sources<br>Connected    |
| SECTION G | AIR CONTAMINANTS FRO CONTAMINANT Chromium Trioxide Phosphoric Acid                           | NAME  | . O           | . 00031               | Emissione<br>Control (ib                    |   | How<br>Determined<br>Estimated |

TO INSURE PROPER COORDINATION BETWEEN VEM- 003 AND VEM- 004 FORMS, INSERT IDENTICAL COMPANY NAME DESIGNATION OF STACK FROM VEM-003, SIDE 1,

| Full Business Name _ | Westinghouse   | Electric  | Corporation |
|----------------------|----------------|-----------|-------------|
| Company Designation  | of Stack (s) N | l Udylite | Exhaust     |

(over)

Plating Room Still Line

| Chemicals Used<br>(by steps above) |                  | Quantity Concentration |              | By percentage: | •               | Disposal<br>3 columns must total 100% |  |
|------------------------------------|------------------|------------------------|--------------|----------------|-----------------|---------------------------------------|--|
|                                    |                  |                        |              | Hauled away    | Flush           | Consumed                              |  |
| Cleaner (STL)                      | Clepo 43R        | 30 Lb.+ 10 Lb.         | 10 Oz/Ga1    | 0              | 100             | 0                                     |  |
| Cleaner (Brass)                    | Clepo 136R       | 10 Lb.+ 5 Lb.          | 8 Oz/Gal     | 0              | 100             | 0                                     |  |
| Acid                               | Hydrochloric     | 75 Gal.                | Concentrated | 0              | 50              | 50                                    |  |
| Anodic Cyanide                     | Sodium Cyanide   | 1.5 Lb.                | 2 Oz/Ga1     | 0              | 80              | 20                                    |  |
|                                    | Sodium Hydroxide | 7.5 Lb.                | 7 Oz/Ga1     |                |                 |                                       |  |
| Acid(Brt.Dip)                      | Sulfuric Acid    | 25 Gal.                | 2 Vol. (67%) | 0              | 40              | 60                                    |  |
|                                    | Nitric Acid      | 50 Gal.                | 1 Vol. (33%) |                |                 |                                       |  |
| Cyanide Soak                       | Nacn             | 5 Lb.                  | 6 Oz/Gal.    | 0              | 40              | 60                                    |  |
| Bright Alloy Plate                 | Sodium Cyanide   | 15 Lb.                 | 3 Oz/Gal.    | 0              | <sup>-</sup> 30 | 70                                    |  |
|                                    | Sodium Hydroxide | 2 Lb.                  | 0.5 Oz/Ga1   |                |                 |                                       |  |
|                                    | Sodium Stannate  | 2 Lb.                  | 0.2 Oz/Gal   |                |                 |                                       |  |
| Nickel Plate                       | Nickel Sulphate  | 36 Lb.                 | 40 Oz/Gal    | O              | 2               | 98                                    |  |
|                                    | " Chloride       | 12 Lb.                 | 12 Oz/Gal    |                |                 |                                       |  |
|                                    | Boric Acid       | 6 Lb.                  | 6.5 Oz/Ga1   |                |                 |                                       |  |
| Zinc Plate                         | Sodium Hydrox    | 16 Lb.                 | 10 Oz/Ga1    | 0              | 2               | 98                                    |  |
|                                    | Sodium CN        | 6 Lb.                  | 10 Oz/Ga1    |                |                 |                                       |  |
|                                    | Zinc CN          |                        | 4 Oz/Ga1     |                |                 |                                       |  |
| Copper Plate                       | Sodium Cyanide   | 6 Lb.                  | 0.7 Oz./Gal  | 0              | 2               | 98                                    |  |
|                                    | Sodium Hydroxide | 4 Lb.                  | :            |                |                 |                                       |  |
| Tin Plate                          | Sodium Hydroxide | 10 Oz.                 | 2 Oz/Gal     | 0              | 2               | 98                                    |  |
|                                    | " Acetate        | 1 Lb.                  | 3 Oz/Ga1     |                |                 |                                       |  |
|                                    | " Stannate       | 10 Lb.                 | 14 Oz/Ga1    |                |                 |                                       |  |

Plating Room

Still Line

|                                    |   |  |   | Dispo   | sal   |
|------------------------------------|---|--|---|---|---|
|                                    | Quant <b>ity</b>  | Quantity Concentration   |   | 3 columns must total 100                              |   |
|                                    |   |  | Hauled away   | F1ush   | Consumed  |
| Sodium Hydroxide                   | 8 Lb.   | 6 Oz/Ga1   | 0   | 5   | 95  |
| Clepo 5 GP                         | 20 Lb.  | l Lb/Gal   | 0   | 5   | 95  |
| Ebanol"C" Spec                     | 10 Lb.  | 1.5 Lb/Gal   | O   | 5   | 95  |
| Iralac                             | 1/2 Gal.  | 33%  | o   | 0   | 100   |
| Hydrogen Peroxid<br>Fluoboric Acid | le <b>10</b> Gal.<br>20 Gal.  | 14%<br>28.6 %  | 0   | 5   | 95  |
| Bonderite D-180                    | 1/2 Gal.  | 55 Lb/100 G  | O   | 5   | 95  |
| Iridite 14-2                       | 6 Oz.   | 1 Oz/Gal   | o   | .5  | 95  |
| Iridite 8-P                        | 3 Oz.   | 1 Oz/Gal   | o   | 5   | 95  |
| Clepo 180K                         | 10 Lb.  | 1 Lb/Gal   | o   | 5   | 95  |
|                                    | Clepo 5 GP  Ebanol"C" Spec  Iralac  Hydrogen Peroxid Fluoboric Acid  Bonderite D-180  Iridite 14-2  Iridite 8-P | Sodium Hydroxide 8 Lb.  Clepo 5 GP 20 Lb.  Ebanol"C" Spec 10 Lb.  Iralac 1/2 Gal.  Hydrogen Peroxide 10 Gal. Fluoboric Acid 20 Gal.  Bonderite D-180 1/2 Gal.  Iridite 14-2 6 Oz.  Iridite 8-P 3 Oz. | Sodium Hydroxide 8 Lb.       6 Oz/Gal         Clepo 5 GP       20 Lb.       1 Lb/Gal         Ebanol"C" Spec 10 Lb.       1.5 Lb/Gal         Iralac       1/2 Gal.       33%         Hydrogen Peroxide 10 Gal.       14%         Fluoboric Acid 20 Gal.       28.6 %         Bonderite D-180 1/2 Gal.       55 Lb/100 G         Iridite 14-2 6 Oz.       1 Oz/Gal         Iridite 8-P 3 Oz.       1 Oz/Gal | Hauled away   Sodium Hydroxide   8 Lb.   6 Oz/Gal   0 | Hauled away   Flush   Sodium Hydroxide   8 Lb.   6 Oz/Gal   0   5 |

Manufacturing Process

Plating Room
Production-Cases, Covers, Various Parts

| Chemicals Used   |  |                |  | Disposal       |                        |          |  |
|------------------|--|----------------|--|----------------|------------------------|----------|--|
| (by steps above) |  | Quantity       | Concentration                          | By percentage: | 3 columns must total 1 |          |  |
|                  | ·  |                |  | Hauled away    | Flush                  | Consumed |  |
| Cleaner STL.     | Matawan 48W                                    | 75 Lb.         | 10 Oz/Gal.                             | О              | 100                    | 0        |  |
| Acid             | Hydrochloric                                   | 75 Gal.        | 7 Normal                               | o              | 50                     | 50       |  |
| Cleaner ST       | Matawan 48W                                    | 50 Lb.         | 10 Oz/Gal.                             | 0              | 100                    | 0        |  |
| Acid             | Hydrochloric                                   | 0              | 5 Normal                               | О              | 50                     | 50       |  |
| E'ctro CYN       | NaCn<br>NaOh                                   | 25<br>10       | 7.8 Oz/G <b>al</b><br>2                | 0              | 100                    | 0        |  |
| Zinc Plate       | Sod. Cyanide<br>Sod. Hydroxide<br>Zinc Cyanide | 40<br>20<br>60 | 10 Oz/Gal<br>10 Oz/Gal<br>4 Oz Zn/Gal. | 0              | · 5                    | 95       |  |
| Pre Dip          | Parcoleme Z                                    | 12 LB.         | 1 Oz/Ga1                               | o              | 95                     | 5        |  |
| Bonderzie        | Bonderite 180                                  | 7.5 Gal.       | 55 Lb./100 Gal                         | 0              | 5                      | 95       |  |
| Chromic Rinse    | Chromic Acid<br>Phosphoric Acid                | 79 g<br>66 ML  | 79 g<br>66 ML                          | 0              | 95                     | 5        |  |

# Plating Room Barrel Line

| Chemicals Used              |  |                                    |                | Dispo     | sal             |
|-----------------------------|--|------------------------------------|----------------|-----------|-----------------|
| (by Steps Above)            | Quantity   | y Concentration                    | By percentage: | 3 columns | must total 100% |
|                             |  |                                    | Hauled away    | Flush     | Consumed        |
| Cleaner (Brass)             | Clepo 136R 25 Lb.                                  |                                    | 0              | 100%      | 0%              |
| Cleaner (Steel)             |  | + 10 Lb. 10 Oz/Ga1                 | О              | 100       | 0               |
| Acid (H3 P <sub>0</sub> 4)  | Phosphoric Acid 5 Gal.                             | Concentrated                       | 0              | 50        | 50              |
| Acid (HCL)                  | Hydrochloric Acid 10 Ga                            | 1. Concentrated                    | 0              | 50        | 50              |
| Acid(Phos-Nitric)           | _(Phosphoric 5 Gal (Nitric 20 Gal                  | )_ 48%<br>) 18%                    | 0              | 50        | 50              |
| Anodic Cyanide              | (Sod.Hydroxide 25 Lb. (Sod.Cyanide 10 Lb.          |                                    | 0              | 80        | 20              |
| Ronderize                   | Bonderite D-180 37.5 Lb                            | . 55 Lb/100 Gal.                   | 0              | 10        | 90              |
| Pre Dip                     | Parcolene Z 11 Lb.                                 | 1 Oz/Gal.                          | О              | 95        | 5               |
| Bonderize<br>Chromic Rinses | Bonderite D-180 37.5 Lb (Phosphoric Acid 138 ML    | . 55 Lb/100 Gal.<br>69 ML/175 Gal) | 0              | 10        | 90              |
| OHIOMIC KINDED              | - (Chromic Acid 164g                               | 82 g/175 Gal.)                     | 0              | 95        | 5               |
| Copper Plate                | Sodium Hydroxide 1 Lb.) Sodium Cyanide 2 Lb.)      | _                                  | 0              | 2         | . 98            |
| Black Oxide (CU)            | Ebanol "C" Spec 10 Lb.                             | 1.5 Lb/Gal                         | О              | 2         | 98              |
| Bright Alloy Plate          | Sodium Cyanide 7.5 Lb. Sodium Stannate 1 Lb.       | -                                  | О              | 30        | 70              |
| Zinc Plate                  | Sodium Cyanide 15 Lb.<br>Sodium Hydroxide 15 Lb.   |                                    | 0              | 2         | 98              |
| Nickel Plate                | Nickel Sulphate 40                                 | 40 Oz/Ga1                          |                | 2         | 0.0             |
|                             | " Chloride 20<br>Boric Acid 10<br>Brightener       | 15 Oz/Ga1<br>6 Oz/Ga1              | 0              | 2         | 98              |
| Tin Plate                   | Sodium Hydroxide 1 Lb.                             |                                    | 0              | 2         | 98              |
|                             | Sodium Acetate 1 Lb. )<br>Sodium Stannate 10 Lb. ) |                                    |                | ۷         | 70              |

P.C. Bd.
Production 750 Bds/Week

| Chemicals Used<br>(by steps above)              |                  | Quantity Concentration |            | by percentage: | Dispo<br>3 columns | osal<br>must total 100% |
|---|------------------|------------------------|------------|----------------|--------------------|-------------------------|
|   |                  |                        |            | Hauled away    | Flush              | Consumed                |
| Ferric Chloride<br>Rinse                        | Ferric Chloride  | 0                      | 38° Be     | 99             | 1%                 | 0                       |
| Caustic (10%)                                   | Sodium Hydroxide | 3 Lb                   | 10%        | -0             | 10                 | 90                      |
| Oxalic Acid<br>to clean etcher<br>every 6 weeks | Oxalic Acid      |                        | 2.5 Oz/Gal | 0              | 100                | 0                       |

# Water Wash Spray Booths

| P.C. A | rea |  |
|--------|-----|--|
|--------|-----|--|

| Chemicals Used (by steps above) |            | Quantity Concentration |             | Disposal by percentage: 3 columns must total 100% |       |          |
|---------------------------------|------------|------------------------|-------------|---|-------|----------|
|                                 |            |                        |             | Hauled away                                       | Flush | Consumed |
| N-1 Paint Booth                 | Oakite 244 | 45 Lb.                 | .03 lbs/Gal | 0   | 100   | 0        |
| R-1 Paint Booth                 | Oakite 244 | 80 Lbs.                | .03 lbs/Gal | 0   | 100   | 0        |

. Section II Part H

# II Air Survey Section H

Complaints from Public

December 18, 1970 complaint from residents of Colonade Apartments,

North of Plant relative to our soot blowing during night hours. Met with
individual involved, discussed problem and assured him action would be
taken. Installed equipment to indicate wind direction and restricted soot
blowing to hours when wind was in favorable direction. Received very
favorable reaction from community.

Other steps taken to insure compliance was installation of sensitive smoke detection equipment with 8 hour recording charts. Expect no future difficulty.

Process Specification NE 294961-1

Issued: January 27, 1964 1st Rev.: February 17, 1964

#### OIL AND METAL CHIP REMOVAL

#### GENERAL:

This process employs an emulsifiable solvent cleaner to remove heavy oil films, solid dirt, and loose metallic chips from all types of metals. The oil is emulsified in water permitting chips and dirt to separate from the work.

SAFETY REQUIREMENTS: See Safe Practice Data Sheets C-6, K-2, S-6

#### 1. LOADING:

- 1.1 Place parts which may be tumbled, without danger of damaging critical dimensions, into a barrel cylinder with perforations which will retain the work and permit chips and dirt to fall through.
- 1.2 Parts which should not be tumbled may be handled in suitable perforated baskets.

#### 2. CLEANING:

- 2.1 Rotate the barrel for 2 minutes in the solution to permit penetration into blind holes.
- 2.2 Soak parts with blind holes which are done in a basket for 2 minutes. Agitate gently every 30 seconds to free chips and displace entrapped air.
- 2.3 Drain excess cleaning solution from the barrel or the basket before transfer to the water rinse.

NOTE: Keep water, wet baskets or wet parts out of the cleaning solution or it will reduce the effectiveness of the cleaner.

#### FORMULA

Emulsion Cleaner 53516EE00A 3.5 gal (SPDS C-6) Solvent 55812CB00A (1609-2) 31.5 gal (SPDS S-6)

#### 3. RINSING:

- 3.1 Tumble in clean running water for 3 to 5 minutes to emulsify the oil and float off the chips.
- 3.2 Basket work should be rinsed for the same time and agitated gently to free the chips.

#### 4. DRYING:

- 4.1 Drain excess water and blow dry with air.
- 4.2 After cleaning, dip steel parts in a mixture of 5 parts of kerosene 55113AAOOA (SPDS K-2) and 1 part of oil 55121ADOOA to prevent rusting prior to plating.

Res Chock Emullion Cleaner 294961 (53516 EE (1) \$8" Diam × 27 deep with 25" folu level (c) area = 0.785 (D) = 0.785 (15) = 1.76 ft (b) Volume = 8748 in 3 = 36. rgel Makeup: - 3 1/2 gol 53516 E Eood Emulsion Clan \* 31-1/2 gol: 55812CBooA Mineral Spi \* Solverd, M.QS. Combustible Liquid Flort PT 380 (100 °F (3) Cleaning Perocodure: - DRY Parts Only (h) Shake and egitate to fixure all fur focus as ( Remove & drain (d) Water pince to pensor sil, chips, etc. (e) Place in soak or eletro cleaner and procedewith the Handerd Cleaning -Note: Do not go into this back with parts extwill water. for Aleminaur Steel Brass

845990085

By June 1, 1980, a completed application for a "Permi Alter Control Apparatus or Equipment" which demonstrat its of subsections (c), (d), and (e) of this Section shows

2. By March 1, 1981, construction of equipment? Ince with an approved "Permit to Construct, Install. Lent" shall commence.

ted from walls

3. By August 1, 1981, compliance with the require achieved.

(j) Any person responsible for a source operation not located Atlantic, Cape May, Cumberland, Hunterdon, Ocean, Sussex, or Warren supprovisions of subsections (c), (d), and (e) of this Section shall comply (c) by June 1, 1980 and with subsections (d) and (e) by June 1, 1981.

# 7:27-16.4 OPEN TOP TANKS AND SURFACE CLEANERS

- (a) No person shall cause, suffer, allow or permit the use of VOS in any unheated or heated open top tank unless such tank is covered by a lid which protects the VOS vapors from drafts and diffusion when the tank is not in active use.
- (b) No person shall cause, suffer, allow or permit the use of VOS in any unheated open top surface cleaner having a top opening of more than 6 square feet (0.56 square meters) but not more than 25 square feet (2.3 square meters) unless such cleaner:
- 1. Has a visible high-level liquid mark which shall not be exceeded by the contained VOS; and
- 2. Is equipped with a rack or mechanism for ensuring that all draining liquid VOS returns into the surface cleaner VOS bath; and
- 3. Is devoid of any flushing wand which produces VOS droplets or mist or which delivers a stream of VOS under a line pressure in excess of 15 pounds per square inch gauge (776 millimeters of mercury gauge); and
  - 4. Is devoid of any agitating system which causes splashing of VOS; and
  - 5. Has a freeboard ratio of 0.5 or greater.
- (c) No person shall cause, suffer, allow or permit the use of YOS in any unheated open top surface cleaner having a top opening of more than 25 square feet (2.3 square meters) unless such cleaner:
- 1. Has a visible high-level liquid mark which shall not be exceeded by the contained VOS; and
- 2. Is equipped with a rack or mechanism for ensuring that all draining liquid VOS returns into the surface cleaner VOS bath; and
- 3. Is devoid of any flushing wand which produces VOS droplets or mist or which delivers a stream of VOS under a line pressure in excess of 15 pounds per square inch gauge (776 millimeters of mercury gauge): and
  - 4. Is devoid of any agitating system which causes splashing of VOS; and

| NY  |     |
|---|-----|
| Address 95 Orange St: 01 Bate: 9/13/82  |     |
| .,  | •   |
| Newark, N.J. 07101 "Tracking No. 82-4049  |     |
| IMPORTANT: Please respond within 15 days of today or your application may be disapprovedue to insufficient information.   | e   |
| Your application(s) are being returned without action. Please complete the  |     |
| following missing information on the application(s). All information required on these forms and relevant to your operation must be complete. It is imperative that |     |
| these forms be returned as soon as possible to comply with our regulations.   |     |
| PLEASE RETURN THIS SHEET WITH THE PERMIT APPLICATION. ALSO, IN FUTURE INQUIRIES   |     |
| ABOUT THIS APPLICATION, PLEASE REFER TO THE ABOVE TRACKING NUMBER.  |     |
|   |     |
| FORM VEN-003  |     |
| sec. A-line 1 2 3 4 5 6 7 8 9   |     |
| Sec. B  |     |
| $\chi$ (sec. 9) (1) (2) (3) (4) (5) (6) (7) (8) (9)   |     |
| signature: the signature must be that of an officer or employee of the  |     |
| operating or owning organization whose name appears at the top of the form.   | L   |
|   |     |
| sec. D  |     |
| IF THIS IS THE CASE, WE REQUIRE A-STATEMENT FROM YOU, FOR:  |     |
| smoke: will be no darker than No On the Ringlemann scale.   |     |
| odor: no odor beyond the property line  |     |
| visible ash: none visible from this unit  |     |
| COOK WITH OOL STORY OOL STORY   |     |
| (FORM VEM-004) complete one VEM-004 for each source.  |     |
|   |     |
|   |     |
| Emissions of pollutants must be listed by name, and an amount given for each in pounds per hour. "None", "nil", "trace", "neg                                       | _   |
| ligible" are not acceptable. If it will be a convenience  | •   |
| to you "less than #/hr. or a similar statement may be entered   | d . |
| sec. II-line A 1 2 3  |     |
| C 1 2 3 4   |     |
| D 1 2 3 4 5 6.7 d   |     |
| sec. II-line  A 1 2 3  B 1 2 3 4 5 6 7  C 1 2 3 4  D 1 2 3 4 5 6.7 8  additional fee required \$ 80.00 (\$40.00 for each)  Mrs. Iclai Atay  Turn please             |     |
| Mrs. Iclal Atay Many gloss  |     |
| For your incormation cail: (699) 192-0/10   |     |

Section C: Please complete this rection. The nearest exhaust to the source ( a window, a door oto can be shown on exhaust.

Section G: Please specify 11,1, Trichloroethane or 1,1,2 Trichloroethane.

Please marge emission with control from O (No control device con be 100% effective)

Please fill in the atlanted sheet for additional degreeses information.



Mensurements Divisions

ys Orange Street Newsek, N. J. 07101

ORDERS #19303, 19304, 19305 Tracking #82-4048,49,50,51,52

. October 11.1982

Department of Environmental Protection Division of Environmental Quality John Fitch Plaza, CN027, Trenton, New Jersey 08625

Attn: Mrs. Iclal Atay

Enclosed are forms VEM-003 (and associated forms VEM-004) for the following equipment at this location.

THE REPORT OF THE PROPERTY OF

Il Exhaust (Tracking #80-4051) for various plating tanks, a steam treatment machine, and the degreaser (previously tracking #82-4048).

NI Udylite Exhaust, (Tracking #80-4052) for a group of tanks and for the open top degreaser (previously tracking #82-4049).

Our boiler stack (Tracking #82-4050) is not submitted because it has been in service for over 30 years. This was discussed with you, I believe, by our attorney, M. Gutman.

Very truly yours,

P.S. Safran, Mfg. Engineer

Works Engineering

PSS:jt

**Enclosures** 

cc: Mr. Ode Keiderling, Eng. Mgr. Department of Environmental Protection

832/8016091



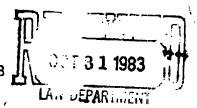


Westinghouse Electric Corporation **Switchgear Divisions** 

Relay-Instrument Division

95 Oranga Street Newark New Jersey 07101 (201) 485 0222 October 25, 1983

Ms. Michele M. Gutman
Law Department
Westinghouse Building - Rm. 1718
Gateway Center
Pittsburgh, Pennsylvania 15222



Subject: Administrative Consent Order - Relay-Instrument Division - (3) Vapor Degreasers

Please be advised that the (3) Vapor Degreasers described in the A.C.O. have been shut down completely, effective this date.

The three machines, along with their attached stills, have been completely drained. The Liquid Storage Tank used to supply the machines has been drained. All of the liquid solvent has been pumped into 55 gal. drums and is awaiting appropriate vendor pick-up for disposition.

In addition, the Ventilators associated with the (3) Degreasers have been shut down.

Kindly advise the State of New Jersey, Department of Environmental Protection of these developments so that the Department may rebate to the Corporation 90% of the settlement, to wit: \$22,500, per paragraph 9 and schedule A of the A.C.O.

The rebate should be sent to: V

Westinghouse Electric Corporation Relay-Instrument Division

4300 Coral Ridge Drive

Coral Springs, Florida 33065

C.J. Michelini, Jr.

Plant Manager

Relay-Instrument Division

Newark Plant

CC: W. Wallace, Coral Springs

J. McCully, Coral Springs

832/8016041

CJM: km

Exhibit A Waste Management & Handling



From : Relay-Instrument Division

WIN : 326-2435

Date : March 11, 1970

Subject : ENVIRONMENTAL POLLUTION

Gateway, 23 South

Mr. J. W. Stirling

Executive Vice President - T&D

In accordance with your request I am forwarding to you a report on Environmental Pollution as prepared by our Works Engineer.

A. J. Petzinger

Measurements Divisions

General Manager

# NEWARK RELAY-INSTRUMENT REVIEW OF ENVIRONMENTAL POLLUTION

A review of systems, processes, and facilities at the Newark Plant indicate that, while there is no immediate real or apparent environmental pollution problem, there are several areas that should be of concern and merit further study.

AIR POLLUTION - Two areas should be analyzed in depth.

The exhaust systems from our plating and finishing departments may be considered as borderline and may present a problem in the future. While in all probability the absence of chrome and the volume of air being handled is of sufficient quantity to dilute pollutents to an acceptable level, the variety and quantity of equipment serviced by this exhaust system is such that a detailed study for conformance to the New Jersey Pollution code is warranted. It is difficult to estimate costs of abatement without a clear definition of the problem. If in truth a problem does exist it in all probability could be handled through the use of fume scrubbers. An approximate cost for such an installation would be from \$80,000 to \$120,000.

The spray booth in our electro-magnet assembly area Department F3 is an older dry type booth which without proper filter maintenance could on occasion discharge particulate matter into the atmosphere. Presently under consideration is the alteration of the existing system on the installation of a water wash spray booth both of which would guard against accidental pollution.

Approximate cost \$10,000

#### WATER POLLUTION

The one area which may be of some concern is the waste from our plating and finishing operations. Effluent from our plant is discharged into sewers belonging to the City of Newark which in turn are serviced by the Passaic Valley Sewerage Commission. The Commission is presently under pressure to improve its effluent by going to secondary treatment of its waste.

(cont'd)

Present regulations of the City of Newark are subject to broad interpretation and discretionary decisions on the part of the Chief Engineer of the Sewer Department. While original plans for the installation of our equipment were accepted and approved by the City it is felt that mounting pressures on the Passaic Valley Sewerage Commission may result in tightening present controls and regulations with respect to the effluent discharged by the user.

The Passaic Valley Sewerage authority is presently conducting a survey to be used as a basis for improvement of their treatment facility. The outgrowth of this survey may be a requirement that users such as Westinghouse provide some treatment of their effluent prior to discharging it into the system. This requirement, if it occurs, will probably take place in from 2 to 3 years.

The type of treatment which would be required by Westinghouse would be subject to review by the agencies providing service. Our best estimate for treatment facilities at this time is from \$60,000 for a flash type neutralizing plant to \$90,000 for one which would neutralize and remove metals. Further analysis and definition of this problem is presently underway.

S. C. Iannaccone Works Engineer

# WESTINGHOUSE ENVIRONMENTAL CONTROL SURVEY

| Location of Plant (City, County, State)   | C. Cooling Water  |
|---|---|
| Survey Prepared By S. C. Iannaccone Date 9/24/71  Products Relays-Instruments-Supvr. Control  | <ol> <li>Is cooling water recycled? Yes If yes, indicate processes for treatment prior to recycleChromate treatment during recirculation.</li> <li>Volume treated per week. 3,230,000 gpw.</li> </ol> |
| Normal Plant Operation  | 3. Blowdown (gallons per week) 32,300 gpw.  |
| A. Circle one: 1 (2) 3 Shifts Per Day  B. Circle one: (5) 6 7 Days Per Week   | Disposal of blowdown -     Storm Sewer Sanitary Sewer   |
| C. Number of employes 1400  | Surface Watercourse   |
| I. WATER SURVEY  A. Water Supply  | Other (Explain) Combination sanitary-storm sewer  |
| <ol> <li>Total incoming water 4,341,480 gallons per week.</li> </ol>  | <ul> <li>D. Liquid wastes from air pollution control devices<br/>(wet scrubbers, etc.)</li> </ul>   |
| 2. Source of water - circle one or more:  | 1. Volume (gal. per day or 新秤) 1,000  |
| River Private Well  | 2. Source Micarta Saw Wet Collector   |
| Municipal Water Supply Other (Specify)  | 3. Analyses <u>Micarta dust in discharg</u> ed water  |
| B. Water Usage (Gallons per week or percentages<br>of total incoming water supply. If percentages<br>are used, total should be 100%.) | E. Water Conservation   |
| Domestic (drinking, sanitary, food preparation) 20%      Cooling 39%  | Do you recycle any water? No     If so, specify source of recycled water by process.  |
| <ol> <li>Cooling 39%</li> <li>Process 26%</li> </ol>  | 3. Volume of water recycled   |
| 4. Other (Examples: boilers - landscape) 4 Well water storage 11 Tank Overflow 5. Does incoming process water require addi-           | Treatment of water previous to recycling      Analyses of water recycled after treatment  |
| tional treatment?No   |   |

| Treatment of waste charge: | water prior to final dis-   |  | st of treatment facilities (and year)  None to date   |
|----------------------------|---|--|---|
| 1. Volume (gallons p       | er shift or day)  |  | one to date   |
| 2. Point of disposa        | : Circle one or more. If more than one, estimate percentage of volume for each. |  | operating costs 0   |
| Municipal Sewer            | Surface Watercourse   | 3. Cost of systems   | use of municipal \$28,000   |
| Deepwell                   | Storm Drain   | 4. Number  | of treatment personnel 0  |
|                            |   | l. List regular<br>charge of li  | tory agencies which now control disquid wastes and wastewaters.   |
|                            |   |  |   |
|                            |   | Please attach copy of  | effluent standards you must meet.   |
| •                          | <del>-</del> '  | data as possible, inc<br>either internally or fo<br>references you think   | s: (Please send us as much pertinent cluding any reports you have made or regulating agencies. Please list any would be useful in this audit, and s who could supply additional infor-  |
| ·                          | ·   | J. Manufactur  | ring Processes - Complete a separate process sheet for each manufacturing process used. See attached examples.  |
|                            | Atterial Disposal   | 2. Point of disposal: Circle one or more. If more than one, estimate percentage of volume for each.  Municipal Sewer Surface Watercourse  Deepwell Storm Drain  3. Please describe pretreatment or treatment facilities None  Disposal of side streams (sludge, other solids; include solutions hauled away) | 2. Point of disposal: Circle one or more. If more than one, estimate percentage of volume for each.  2. Cost of  Municipal Sewer Surface Watercourse  Deepwell Storm Drain  3. Please describe pretreatment or treatment facilities None  Please attach copy of Additional comment data as possible, ince either internally or for references you think name any individuals mation.)  Material Disposal Quantity Per Week  J. Manufactur |

\*Includes evaporation loss

|                                | Name                        |                      |                                       |                        |                |
|--------------------------------|-----------------------------|----------------------|---------------------------------------|------------------------|----------------|
|                                | Description                 | on (List steps in pr | ocess)                                |                        |                |
|                                | 1                           |                      |                                       |                        |                |
|                                | 2                           |                      |                                       |                        |                |
|                                | 3                           |                      |                                       |                        |                |
|                                | 4                           |                      | · · · · · · · · · · · · · · · · · · · |                        |                |
|                                | 5                           |                      |                                       |                        |                |
|                                | 6                           |                      |                                       |                        |                |
|                                | 7                           |                      |                                       |                        |                |
|                                | 8                           |                      | <del></del>                           |                        |                |
|                                | 9                           |                      | · · · · · · · · · · · · · · · · · · · |                        |                |
|                                | 10                          |                      |                                       | <del></del>            |                |
| Chemicals used by steps above) | Quantity<br>(used per week) | Concentration        | By percentage:                        | Disposal 3 columns sho | uld total 100% |
|                                |                             |                      | Hauled away                           | Flush                  | Consumed*      |
|                                |                             |                      |                                       |                        |                |
|                                |                             |                      |                                       |                        |                |
|                                |                             |                      |                                       |                        |                |

<sup>845990096</sup> 

#### Manufacturing Process (Example)

Name Chemical cleaning - aluminum

Description (Steps in process)

- 1. Degrease
- 2. Alkaline clean
- 3. Rinse
- 4. Deoxidize
- 5. Alodine
- 6. Rinse
- 7. Hot deionized rinse

Process production rate (average weekly production)

5000 lbs. per week.

| Chemicals used (by steps above)        | Quantity               | Concentration         | By percentage: | Disposal<br>3 columns m | ust total 100% |
|--|------------------------|-----------------------|----------------|-------------------------|----------------|
|  |                        |                       | Hauled away    | Flush                   | Consumed*      |
| 1. Trichloroethane                     | 400 gal per wk.        | 100%                  | 5%             | 0%                      | 95%            |
| 2. Altrax 1097 (al-<br>kaline cleaner) | 200 lbs.               | 8 oz. per gal.        | 98%            | 2%                      | 0%             |
| 3, 6, 7 Rinse                          | 50000 gal.<br>per week |                       | 0%             | 95%                     | 5%             |
| 4. Deoxidizer (proprietary)            | 200 lbs.               | 16 oz. per gal.       | 99%            | 1%                      | 0%             |
| 5. Alodine 1200<br>(proprietary)       | 100 lbs.               | 1-1/2 oz. per<br>gal. | 95%            | 1%                      | 4%             |

<sup>\*</sup>Includes evaporation loss

Type of waste treatment at process site

Bisulfite and caustic soda added to rinse waters to convert hexavalent chrome to trivalent chrome and control pH

Monitoring and chemical analyses

pH recording meter

Periodic chemical analyses of grab samples

| A. Number of Fuel Burning Units at plant. The total number of units in which fuel combustion for in-   | State, local or region N.J. Air Pol. (See Attached                                  | lution Control Code   |
|--|---|---|
| direct heating occurs, either for space heat or in-<br>dustrial use  | so <sub>2</sub>   | ppm   |
| B. Annual fuel usage. The total quantities of all fuels  | NO <sub>x</sub>   | ppm   |
| should be listed. If different grades of coal or fuel oil were used, they should be listed separately.   | СО  | ppm   |
| Fuel Type Quantity (Units) Sulfur Content (%)  | Hydrocarbons  | ppm   |
| Fuel  1. #5 0il 836,640 Gals. 0.5  | Particulates  | grains/SCF  |
| 2  | Odors   | ppm, micrograms/M <sup>3</sup> or<br>scentometer No.  |
| 3.   | E. Name of air pollution  | on control official in your   |
| C. Air Pollution Controls. Any controls removing particulate material or SO <sub>2</sub> from the flue gas streams should be specified in this item.  Equipment Particulate Control Amount of Combustion Type Efficiency (%) Capacity Controlled (%) | Name Char: Address City Telephone No. 2  2. State N. J. I Name Richard Address John | -Board of Health les McGuire Hall, Broad St. 201 MI 3-6300 Dept. Environmental Control Sullivan, Commissioner Fitch Plaza, Trenton, No. |
| 2  | F. Have you received the public officials?  | any complaint(s) from any of  |
| 3  | Yes   | No X  |
| 4  | Last complai  | int - 1962  |
| 5  | G. If yes, state natur plaint(s). Attach se   | e and disposal status of com-<br>parate sheet.  |
| Comments:  | H. Have you received eral public?   | any complaint(s) from the gen-  |
|  | Yes <u>X</u>  | No  |
|  | If yes, state natur<br>plaint(s). Attach se   | re and disposal status of com-<br>parate sheet.   |
|  | If no, do you exp<br>separate sheet.  | pect any in the future? Attach  |

| III. SOLID WASTE SURVET | 111. | SOLID WASTE SURVEY |
|-------------------------|------|--------------------|
|-------------------------|------|--------------------|

A. Type of solid waste. The section should present a comprehensive display of the types and quantities of solid wastes generated by plant operations. Quantities reported should reflect average daily operating conditions.

|     |                             |                        | Disp           | osal            |
|-----|-----------------------------|------------------------|----------------|-----------------|
|     | Туре                        | Quantity<br>(Tons/Day) | On-Site<br>(%) | Off-Site<br>(%) |
| 1.  | Rock, sand,<br>gravel, etc. | 0                      | 0              | 100             |
| 2.  | Ash                         | 0                      | 0              | 100             |
| 3.  | Collected Fly Ash           | 0                      | 0              | 100             |
| 4.  | Sludge                      | 1/20                   | 0              | 100             |
| 5.  | Metal Scrap,<br>Containers  | 1/20                   | 0              | 100             |
| 6.  | Paper Scrap,<br>Containers  | 5                      | _0             | 100             |
| 7.  | Plastic                     | 1/40                   | 0              | 100             |
| 8.  | Garbage                     | 1/10                   | 0              | 100             |
| 9.  | Glass                       | 0                      | 0              | 100             |
| 10. | Other (specify)             | 1/5                    | _0             | 100             |

- B. Disposal Methods. All solid wastes produced must eventually be disposed of in some manner. The intent of this item is to indicate what disposal methods or techniques are currently in use at the plant site.

|       |     | (d)        | Municipal Dispos              | al (%)  |               |
|-------|-----|------------|-------------------------------|---|---------------|
|       |     | (e)        | By-Product Use C              | )r<br>(%)   |               |
|       |     | (f)        | Other (Specify)_              | (%)   |               |
|       | 2.  |            | al On-Site Disposa<br>ns/Day) | ı   |               |
|       |     | (a)        | Incineration*                 | (%)   |               |
|       |     | (b)        | Landfill                      | (%)   |               |
|       |     | (c)        | Other (Specify)_              | (%)   |               |
| Comm  | ent | s:         |                               |   |               |
| Sol   | id  | Wa         | ste Removed 1                 | oy Scavanger.   |               |
|       |     |            |                               |   |               |
|       |     |            |                               |   |               |
| waste | e p | roble      |                               | viding a solution to<br>n air pollution situ                |               |
|       |     |            |                               |   |               |
| Α.    | ce  | -          |                               | ements. Information level measurements                      |               |
|       | 1.  | Hav<br>mac | ••                            | noise measurement   | s been        |
|       |     | If Y       | (b) Organizatio tests State   | measurement <u>6/1</u><br>n or group cond<br>e Dept. of Lab | ucting<br>oor |
|       |     |            | (c) Type of equ               | uipment used <u>G.R.</u><br>Boundary-Line Soun              | .C.1565       |
|       |     |            |                               | ests: Enclosed  | 100           |

B. Complaints of Excessive Noise. In the absence of objective environmental criteria relating to noise, complaints may be used in identifying and defining any potential problems. Parts (a) and (b) of this item refer to employe and community generated complaints, respectively.

Available\_

Unavailable X

| Are complaints received from workers regarding  | V. RADIOACTIVE MATERIALS   |
|---|--|
| noise? Yes No X   | A. Use of Radioactive Materials:   |
| If Yes (a) Describe source(s) of noise referred   | A. Use of hadioactive indicatals.  |
| to in complaints  | 1. Are radio isotopes at this facility? Yes  |
|   | No X If No, do not complete remainder  |
| (b) Has protective or remedial action been taken? Yes No  | of this form.  |
|   | 2. Type of use. Define generally what use is made  |
| 2. Have persons in the area of this facility com-<br>plained to plant or local authorities concerning<br>noise from this plant? | of the radioactive material; specifics are not necessary.  |
| Yes No <u>X</u>   | (a) Manufacturing  |
| If Yes (a) Describe circumstances, action taken   | (b) Testing  |
| and deposition of this complaint  | (c) Research   |
|   | (d) Other(Specify)   |
| <ul> <li>Noise Producing Equipment. A general descriptive<br/>title should be used.</li> </ul>                                  | B. Individual Responsible for Control of the Radio-<br>active Materials:   |
| List below equipment capable of generating high sound levels.   | 1. Name:   |
|   | 2. Title:  |
| Type Of Equipment Number Hours Operated/Shift   | 3. Organization:   |
| 1   | 4. Area Code/Phone/Extension:  |
| 2   | C. Type and Quantities of Material Utilized:   |
| 3.  | Average quantity of radio isotopes on hand during 1970 (Curies, C)   |
| 7.  | 2. Isotopic composition of the above. Chemical   |
| 5   | symbol and atomic weight are sufficient; i.e., 1131, Sr <sup>90</sup> , U <sup>235</sup> . Quantities may be expressed |
| Comments:   | in curies or microcuries, whichever is more convenient.  |
| Survey of plant with Dept. of Labor   | (a) Isotope Quantity (c)   |
| to determine employe exposure to  | (b) Isotope Quantity (c)   |
| excessive noise resulted in negative  | (c) Isotope Quantity (c)   |
| findings.   | (d) Isotope Quantity (c)   |

ì

| 3.   |  | of radioactive materi<br>(c). (Radio isc   |   | (b)                                    |                                       |             |                 |                                 |                                       |
|------|--|--|---|--|---------------------------------------|-------------|-----------------|---------------------------------|---------------------------------------|
|      | are not                                | dangerous from an eon standpoint.)   |   | (c)                                    |                                       |             |                 |                                 |                                       |
| D. R | emoval or                              | release of radioactive   | e material:   |  | 3. Conditi                            | ons of rele | ase to the      | water:                          |                                       |
|      | Specific                               | of material leaving<br>isotopes involved. T<br>as fully as possible in<br>ociated with each type | his item should be                                      | (a)                                    | Radioisotope                          | Species     |                 | (uc/1)                          | Of<br>Release*                        |
| Radi | oisotope                               | Incorporated In Product (c)  | Release To Environment (c)                              | (b)                                    |                                       |             | <del></del>     |                                 |                                       |
|      | <del></del>                            |  | Environt (o)  | (c)                                    |                                       |             |                 |                                 |                                       |
| (b)  | <del> </del>                           |  |   |  | 4. Conditi                            | ons of rele | ase in solid    | d waste:                        |                                       |
| (d)  | ······································ |  |   |  | Radioisotope                          |             | Quantity<br>(c) | Specific<br>Activity<br>(uc/lb) | Special<br>Handling                   |
|      | Amount<br>leased 19<br>tial accid      | of Radioactive Mat<br>970dental release shou<br>n an attachment.                                 | erial accidently re-                                    | (b)                                    |                                       |             |                 |                                 |                                       |
| E. F | orm of Re                              | lease to Environmen  | t:  | Co                                     | mments:                               |             |                 |                                 |                                       |
| 1.   |  | of radioactive mate disposal 1970 (c)  | •   |  | · · · · · · · · · · · · · · · · · · · |             |                 |                                 |                                       |
| 2.   | Conditio                               | ns of release to the a   | ir.   |  |                                       |             |                 |                                 |                                       |
| Radi | oisotope S                             | Chemical Quantity Species (c)  | Specific Type Activity Of (uc/m <sup>3</sup> ) Release* | ************************************** |                                       |             |                 |                                 | · · · · · · · · · · · · · · · · · · · |
| (a)  |  |  |   | *Co                                    | ontinuous, Inte                       | rmittent, A | Accidental      |                                 |                                       |



# UNITED STATES TESTING COMPANY, INC.

| Page | 4 | of | 6 |
|------|---|----|---|
|      |   |    |   |

|   |  | Report No.; 67170 Date:              | 6/12/7   | Ľ  |
|---|--|--------------------------------------|--|----|
| Sample No.: 3 Description Compo           | osite of all 6                                   | lines.                               |  | _  |
| Sample No.: Description                   |  |                                      | · · · · · · · · · · · · · · · · · · ·            |    |
|   | SAMPLE NO.                                       |                                      | SAMPI  |    |
| TEST                                      | 3  | TEST                                 | 3  | Ŧ  |
| Acidity (as CaCO <sub>2</sub> )           | <del>                                     </del> | Surfactants                          | <del>                                     </del> | t  |
| Alkalinity, Total (as CaCO <sub>2</sub> ) |  | Aluminum                             |  | t  |
| Alkalinity                                |  | Antimony                             | ·  | t. |
| Hydroxide                                 | <del>                                     </del> | Arsenic                              | <del> </del>                                     | t  |
| Carbonate                                 | <del> </del>                                     | Beryllium                            | <del> </del> -                                   | t  |
| Bicarbonate                               | ·   · · · · · · · · · · · · · · · · · ·          | Cadmium                              |  | t  |
| Bronides                                  | 2.5  | Calcium                              |  | t  |
| Total Organic Carbon                      | 19.65  | Chromium, Total                      | <del> </del> -                                   | t  |
| Chemical Oxygen Demand (COD)              | 656.0  | Chromium, Hexavalent                 | <del> </del>                                     | t  |
| Chlorides                                 | 190  | Cobalt                               | †··  | t  |
| Chlorine Residual                         | 137  | Copper                               | <0.1   | t  |
| Chlorinated Hydrocarbons                  | -  | Iron                                 | <0.1   | t  |
|   | 0.44   | Lead                                 | <0.3   | t  |
| Oyanides<br>Fluorides                     | 0.3  | Magnesium                            | 10.3   | t  |
| Hardness, Total                           |  | Manganese                            |  | t  |
| lodide                                    |  | Mercury                              | .0007  | t  |
| lodide<br>Nitrogen                        |  | Molybdenum                           | 0.4  | t  |
| Ammonia                                   |  | Nickel                               | 0.4  | t  |
| Nitrate                                   |  | Potassium                            | <del> </del>                                     | t  |
| Nitrite                                   |  | Selenium                             |  | t  |
| Kjeldahi                                  |  | Sodium                               |  | t  |
| Oll/Grease                                | 4.0  | Tin                                  | 1  | +  |
| pH (Unite)                                | 7.2  | Titanium                             | <del> </del>                                     | t  |
| Phenois                                   | <u> </u>   | Zinc                                 | 0.59   | 1  |
| Phosphate, Total                          |  | Immediate Oxygen Demand              | 10.00  | t  |
| Silica, Dissolved                         |  | Biochemical Oxygen Demand (5 days)   | 11.1   | t  |
| Solids                                    |  | Biochemical Oxygen Demand (20 days)  | <del> </del>                                     | t  |
| Total                                     | 796  | Coliform, Total (MPN/100 mls.)       | 1  | t  |
| Suspended                                 | 20   | Coliform, Fecal (MPN/100 mls.)       | <u> </u>   | t  |
| Volatile                                  | 172  | Fecal Streptococcus (MPN/100 mls.)   |  | ۲  |
| Total Dissolved                           |  | Total Plate Count (per ml.)          | <u> </u>   | t  |
| Volatile Suspended                        | 10   | Odor (Units)                         | <u> </u>   | t  |
| Settleable Solids                         |  | Color (Units)                        | !  | t  |
| Sulfates                                  | 200  | Specific Conductance (micromhos/cm.) |  | t  |
| Sulfides                                  |  | Taste (Units)                        | <del> </del>                                     | t  |
| Sulfites                                  |  | Turbidity (J.T.U.)                   | ₹18  | t  |
| Total Non-Volatile Suspended              | 10   | Silver                               | <0.1   | t  |
| Total Non-Volatile Solids                 | 624  |                                      | <u> </u>   | +  |

| otal Non-Volatile Solid  | ls 624                   |                                      |
|--|--------------------------|--------------------------------------|
| N  | ote: All Results are giv | en in mg./i. unless otherwise shown. |
| REMARKS:   |                          |                                      |
|  |                          |                                      |
| A STATE OF THE STA |                          |                                      |
|  | 中期                       | 845990102                            |

# United States Testing Company, Inc.

CLIENT: Westinghouse, Newark, N.J.

| Emission spectrograph semi-quantitative | : analyses. |
|---|-------------|
|---|-------------|

| g*            |          |         |             |
|---------------|----------|---------|-------------|
| Sample Number | <u>1</u> | 2       | 3           |
| Aluminum      | πι       | m1      | <b>:</b> "; |
| Arsenic       | ND       | -       |             |
| Antimony      | ND       | -       | -           |
| Barium        | ND       | -       | -           |
| Boron         | ND       | -       | ••          |
| Bismuth       | ND       |         | -           |
| Cadmium       | ND       | -       | -           |
| Calcium       | В        | P       | P           |
| Chromium      | ND       | ND      | m           |
| Cobalt        | ND       | ~       | -           |
| Copper        | t        | m       | t           |
| Iron          | M1       | Ml      | M           |
| Lead          | t1       | -       | -           |
| Lithium       | ND       | -       | -           |
| Magnesium     | Ml       | <b></b> | -           |
| Manganese     | tl       | -       | •           |
| Molybdenum    | ND       | -       | -           |
| Niobium       | ND       | -       | -           |
| Nickel        | m1       | m       | m I         |
| Sodium        | Pl       | M       | Pl          |
| Silicon       | M        | Ml      | 41          |
| Silver        | ft       | -       |             |
| Tantalum      | ND .     | -       | _           |
| Tin           | tl       | t       | tl          |
|               |          |         |             |

# United States Testing Company, Inc.

Emission spectrograph semi-quantitative analyses.

| Sample Number |      |   | 2            | 3 |
|---------------|------|---|--------------|---|
| Titanium      | • tl | • | <u>-</u>     | - |
| Tungs ten.    | ND   |   | •            | - |
| Vanadium      | ND   | • | •            | - |
| Sinc          | t1   |   | <del>-</del> | - |
| Zirconium     | ND   | • | -            | - |

Percent of total solids.

P - 10 to 100%

M - 1 to 10%

M - 1 to 10%

M - 1 to 1.0%

M - Not detected

Tt - less than 0.01%

Vft - were faint trace



REMARKS:

# UNITED STATES TESTING COMPANY, INC.

|      | _ |    |    |
|------|---|----|----|
| Page | 4 | of | 6_ |

| Semple No.: 3 Description Compo           |            |  |  |
|---|------------|--|--|
| Sample No.: Description                   | ·          | Company and the second and different alleges alleges and an experience of the second and the sec | and the second s |
|   | SAMPLE NO. |  | SAMPL  |
| TEST                                      | 3          | TEST   | 3  |
| Acidity (as CaCO <sub>3</sub> )           |            | Surfactants  |  |
| Alkalinity, Total (as CaCO <sub>1</sub> ) |            | Aluminum   | l  |
| Alkalinity                                |            | Antimony   | <u> </u>   |
| Hydroxide                                 |            | Arsenic  | <u> </u>   |
| Carbonate                                 |            | Beryllium  | ļ  |
| Bicarbonate                               |            | Cadmium  |  |
| Bromides                                  | 2.5        | Calcium  |  |
| Total Organic Carbon                      | 19.65      | Chromium, Total  |  |
| Chemical Oxygen Demand (COD)              | 656.0      | Chromium, Hexavalent   |  |
| Chlorides                                 | 190        | Cobalt   |  |
| Chlorine Residual                         |            | Copper   | <0.1   |
| Chlorinated Hydrocarbons                  |            | Iron   | <0.1   |
| Cyanides                                  | 0.44       | Lead   | <0.3   |
| Fluorides                                 | 0.3        | Magnesium  | ļ  |
| Hardness, Total                           |            | Manganese  | ļ  |
| lodide                                    |            | Mercury  | .0007  |
| Nitrogen                                  |            | Molybdenum   | 0.4  |
| Ammonia                                   |            | Nickel   | ļ  |
| Nitrate                                   |            | Potassium  | ļ  |
| Nitrite                                   | <u> </u>   | Selenium   |  |
| Kjeldahl                                  | <u> </u>   | Sodium   | <del> </del>   |
| Oil/Grease                                | 4.0        | Tin  | ļ  |
| pH (Units)                                | 7.2        | Titanium   |  |
| Phenois                                   |            | Zinc   | 0.59   |
| Phosphate, Total                          |            | Immediate Oxygen Demand  |  |
| Silica, Dissolved                         |            | Biochemical Oxygen Demand (5 days)   | 11.1   |
| Solids                                    | <b></b>    | Biochemical Oxygen Demand (20 days)  |  |
| Total                                     | 796        | Coliform, Total (MPN/100 mls.)   |  |
| Suspended                                 | 20         | Coliform, Fecal (MPN/100 mls.)   |  |
| Volatile                                  | 172        | Fecal Streptococcus (MPN/100 mls.)   |  |
| Total Dissolved                           | ļ          | Total Plate Count (per ml.)  |  |
| Volatile Suspended                        | 10         | Odor (Units)   | :<br>  |
| Settleable Solids                         |            | Color (Units)  | <b>}</b>   |
| Sulfates                                  | 200        | Specific Conductance (micromhos/cm.)   | L  |
| Sulfides                                  |            | Taste (Units)  | 710  |
| Sulfites                                  |            | Turbidity (J.T.U.)   | <18  |
| Total Non-Volatile Suspended              |            | Silver   | <0.1   |
| Total Non-Volatile Solids                 | 624        |  | <u> </u>   |

845990105

# United States Testing Company, Inc.

CLIENT: Westinghouse, Newark, N.J.

Emission spectrograph semi-quantitative analyses.

|               | the state of the s |                |    |
|---------------|--|----------------|----|
| Sample Number | 1  | 2              | 3  |
| Aluminum      | , fil  | ml             | m  |
| Arsenic       | ND   | -              | -  |
| Antimony      | ND   | -              | -  |
| Barium        | ND   | -              |    |
| Boron         | ND .   | · <del>-</del> |    |
| Bismuth       | ND   | -              | _  |
| Cadmium       | ND   | <b>-</b>       | _  |
| Calcium       | P  | P              | P  |
| Chromium      | ND   | ND             | m  |
| Cobalt        | ND   | <u>.</u>       |    |
| Copper        | t  | m              | t  |
| Iron          | Ml   | Ml             | M  |
| Lead          | t1   |                | _  |
| Lithium       | ND   | -              | _  |
| Magnesium     | Ml   |                | -  |
| Manganese     | tl   | <b>-</b>       | -  |
| Molybdenum    | ND   | ÷              | -  |
| Niobium       | ND   | ·<br>-         | -  |
| Nickel        | ml   | m              | ml |
| Sodium        | P1   | м              | Pl |
| Silicon       | <b>. M</b>   | Ml             | MI |
| Silver        | ft   | -              | -  |
| Tantalum      | ИD   | <b>-</b> .     | -  |
| Tin           | tl   | <b>t</b>       | tl |
|               | :  |                |    |

Page

845990106

## United States Testing Company, Inc. CLIENT: Westinghouse, Newark, N.J.

Emission spectrograph semi-quantitative analyses.

| Sample Number |     | 1    | • | 2       | 3 |
|---------------|-----|------|---|---------|---|
|               | * • |      |   |         |   |
| Titanium      | •   | • tl |   | -       | - |
| Tungsten      | :   | ND   |   | -       | - |
| . Vanadium    |     | ND   |   | <b></b> | - |
| Zinc          |     | t1   |   | -       |   |
| Zirconium     |     | ND   |   | -       | - |

P - 10 to 100%

M - 1 to 108 m - 1 to 1.08 t - :01 to .18

ft - less than 0.01%

\* - less than figure shown

h - Upper half of range shown
l - Lower half of range shown

NB - Not detected

March 19, 1975

Mr. John W. Kinder Industrial Liaison Passaic Valley Sewerage Commissioners 600 Wilson Avenue Newark, N. J. 07105

Dear Mr. Kinder:

Per the request of the PVSC I am enclosing the following information.

One diagram indicating all connections from the Westinghouse Relay-Instrument Division, into the City of Newark sewerage system. This drawing also indicates the points at which we took individual samples to arrive at a composite sample which was used as a basis for the analytical information requested.

Per our conversation, I have re-submitted the information originally furnished to you during the latter part of 1972. A review of the manufacturing and process operations at this location indicates that there has been little or no change in the type and quantity of product produced. While our water usage for the year 1974 was lower than that of 1971, this could be attributed to the fact that we have undertaken an energy conservation program and have greatly reduced the number of operating hours for our boilers and air conditioning equipment.

The wastewater and sampling analyses were done by the United States Testing Co. Inc. (a copy of their report is attached). If any additional information is required, please do not hesitate to centact me.

Yours touly,

S. C. Immaccone, Manager Works Engineering

cc: Mr. M. W. Mardis, Manager Relay-Instrument Division cc: Mr. B. A. Kerns, Manager Euvironmental Control CARMINE T. PERRAPATO

PASSAIC VALLEY SEWERAGE COMMISSIONERS

SEYMOUR A. LUBETKIN CHILF ENGINEER

CHARLES C. CARELLA CHIEF COUNSEL

THOMAS J. CIFELLI

ROBERT J. DAVENPORT BEN W. GORDON JOSEPH M. KEEGAN COMMISSIONERS 600 WILSON AVENUE NEWARK, N.J. 07105 (201) 344-1800

e∰ju54

MRS. CHARLES T. SCHAEDEL

But your information.

Any swing gestions

Westinghouse Electric Corporation Relay Instrument Division 90 Orange Street Newark, New Jersey 07101

### Gentlemen:

On August 1, 1976 the Passaic Valley Sewerage Commissioners established Rules and Regulations concerning sewer connection permits. These rules require that industrial users apply for a permit in order to discharge industrial wastes to the sanitary sewer.

Enclosed is a copy of the Rules and Regulations with the application attached. Please complete and forward to the designated Municipal Official for certification. If information requested as Exhibit A,B, or C has been previously submitted to Passaic Valley Sewerage Commissioners, and the information contained therein has not changed significantly, it need not be repeated. However, PVSC reserves the right to require additional data as necessary.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS

Frank P. D'Ascensio

FPD:rv

P.S. Remit completed application to:
Mr. N. Valenti
Dept. of Engineering
Room 411 - City Hall
Newark, N.J. 07102

NPDES - National Pollution Discharge Elimination System

pH - The reciprocal of the logarithm of the hydrogen ion concentration. The concentration is the weight of hydrogen ions, in grams, per liter of solution. Neutral water has a pH value of 7 (a hydrogen ion concentration of  $10^{-7}$ ). Lower pH's are acid, higher pH's are alkaline.

Pretreatment - Treatment given to industrial waste, prior to its discharge to the PVSC facilities, by the industry, in order to remove illegal and/or undesirable constituents or to reduce the strength of the waste.

Property Owner - Owner of the property wherein an industry discharging to the PVSC facilities is located.

PVSC - Passaic Valley Sewerage Commissioners

Sanitary Waste - Waste derived principally from dwellings, office buildings, and sanitary conveniences. When segregated from industrial wastes, may come from industrial plants or commercial enterprises.

Strength of Waste - A measurement of suspended solids, and/or Biochemical Oxygen Demand, and/or Chemical Oxygen Demand, and/or any other parameter determined by PVSC as a fair indicator of the relative use, other than volumetric, of PVSC facilities by industrial wastes.

Toxic Wastes in Toxic Amounts - Defined by USEPA in 40 CFR 129 (38 F.R. 24342, 9-7-73) and any subsequent revisions.

<u>USEPA</u> - United States Environmental Protection Agency

<u>User Charge</u> - A charge to users, established by PVSC, based on volume and, where applicable, on strength and/or flow rate to pay for the use of the PVSC facilities.

- 2) Any person, corporation or municipality, or other governmental agency desiring to make any sewerage connection or discharge or to continue to discharge sewerage, which includes or consists of industrial waste, into the PVSC treatment facilities, must make application therefor in writing on forms provided by the PVSC. All existing industrial users are required to make such application by June 1, 1977. Any new facilities shall be required to make application prior to the connection.
- 3) There shall be two major forms of Application:
- (a) Sanitary Application application from dwellings, groups of dwellings, or industrial or commercial establishments with only sanitary waste.
- (b) Industrial Application for industrial waste or storm water from an industrial site.

Sanitary applications shall be made by the owner of the property to the municipality, and no approval by PVSC is necessary unless a direct connection into a PVSC sewer is being requested. However, the municipality shall keep a record of the number of connections that are added and removed and shall make an annual report to the PVSC no later than February 1 of each year.

Industrial applications shall be made by the industry that generates the waste; however, the application must also be signed by the owner of the property wherein the industry is located. The industry shall be responsible for the quality and quantity of the waste, but the industry and owner of the property shall be jointly and severally responsible for any user charges or industrial cost recovery charges, and such charges when not paid may be made a lien against the property, and interest may be charged.

4) Any existing facility which proposes to make any change in its facility or its processing, which significantly affects either the quality or the quantity of its discharge into the sewerage system, shall be required to submit an Industrial Sewer Waste Revision Application showing the changes contemplated. Any new tenant or occupant of an existing facility shall be required to submit an Industrial Sewer Waste Revision Application. The application must be accompanied by a written approval of the particular municipality and owner of the property that are responsible for such sewerage.

- 5) Existing industries that have applied for permits may continue their discharge until their application has been processed by PVSC, unless in violation of Section 18, "Prohibited Wastes" of these regulations, or unless notified by PVSC to cease and desist their discharge.
- 6) Applications for Industrial Permits issued by PVSC shall be classified in one of these categories and the applicant and municipality shall be notified as expediently as possible:

### Category I:

Class I-A permit which shall not be issued to an industry defined as a major industry is issued allowing industry to continue to discharge with no modification or pretreatment of flow.

Class I-B permit is issued allowing industry to continue to discharge with no modification or pretreatment of flow, but industry is considered a major industry and may be required to install monitoring equipment.

### Category II:

Class II-A permit allows industry to continue to discharge pretreated wastes in accordance with standards established in the permit.

Class II-B permit allows industry to continue to discharge subject to change of characteristics of its waste by pretreatment or other means in accordance with a schedule as established or to be established in the permit.

### Category III:

Permit denied and the discharge of illegal material must be halted or modified by a date established by PVSC.

PVSC reserves the right to change any Class permit to any other class permit, or to cancel permits upon notification by certified mail giving six months notice and giving the reason for the change.

- 7) Class I-A, I-B, and II-A permits shall be for an indefinite period of time unless cancelled or modified by PVSC.
- 8) Class II-B shall be for a period of time specified in the notice of classification requiring the industry to modify its discharge so that a Class II-A permit may be issued.
- 9) If an industry receives a Class II permit and disagrees with the findings of PVSC, it may appeal to the PVSC and request a hearing. The appeal shall be sent "Certified Mail" to the PVSC, 600 Wilson Avenue, Newark, N. J., 07105, within thirty days of notification by PVSC of the granting of the permit or of any modification of an existing permit. The Permittee shall obtain a return receipt showing date the appeal application was received by PVSC. During the time of appeal, the Class II permit requirements are stayed; however, the staying of such requirements shall not release any industry from the obligation of meeting any requirements and any time schedule set by NJDEP or USEPA.
- 10) Any appeal request shall be heard by the Commissioners. The findings of the Commissioners may be submitted to USEPA and/or NJDEP and upon approval by either or both shall either be incorporated in a new permit or the existing permit shall be reaffirmed.
- 11) An application submitted by a corporation must be signed by the principal executive officer of that corporation or by an official of the rank of corporate vice president or above who reports directly to such principal executive officer to make such applications on behalf of the corporation. In the case of a partnership, the application must be signed by a general partner or proprietor. If the owner of the property is a corporation, other than the applicant, then the application must also be signed by the property owner as per the above.

Where an application involves a governmental discharge, the person signing on behalf of a municipal, county or intra-State regional governmental unit; if the applicant is a State or multi-State agency, the application must be signed by that agency's principal executive officer or one who reports directly to him and is authorized to make applications on behalf of the governmental unit. Applications submitted by an agency of the United States should be signed by an official who is authorized to evaluate environmental factors on an agency-wide basis.

12) Each user municipality shall designate an official who shall have the responsibility to supervise and enforce municipal connections and sewer requirements. The name of such designated official shall be submitted to the PVSC by the municipality.

- 13) In addition to the application, each industrial user must complete an industrial survey form which is supplied by PVSC, unless the industrial user has previously completed and submitted such a form to the PVSC.
- 14) When the industry is classified as a Major Industry, it will install an approved, sealed, automatic monitoring system if requested to make such installation by PVSC.
- 15) No uncontaminated water (e.g. cooling water, etc.) shall be discharged into the PVSC system except with the prior written consent of the PVSC.
- 16) When pretreatment standards are adopted by USEPA for any given class of industries, then that industry must immediately conform to the USEPA timetable for adherence to Federal (and therefore PVSC) pretreatment requirements, and any other applicable requirements promulgated by USEPA in accordance with Section 307 of P.L. 92-500. Additionally, such industries shall comply with any more stringent standards necessitated by local conditions as determined from time to time by the PVSC.
- 17) A PVSC inspector or authorized employee of PVSC, NJDEP, USEPA, or the municipality, must be given immediate access to any industry at any time during normal working hours or at any other time that an industry is discharging into either the PVSC system or into any of the waters under jurisdiction of the PVSC in order that the inspector may check the quality of the discharge, take samples, tests, and measurements.
- 18) The following wastes may never be discharged into the PVSC system:
  - (a) Wastes that may create a fire or explosion hazard in the sewer, or wastewater facility, such as gasoline, fuel oil, cleaning solvents, etc.
  - (b) Wastes that may impair the hydraulic capacity of the sewer system, such as ashes, sand, metal, etc.
  - (c) Wastes that may create a hazard to people, the sewer system, the treatment process, or the receiving water, such as dangerous levels of toxic materials.

- 19) The following wastes may not be discharged without special permission, available on a case by case basis after the applicant proves the discharge not to be detrimental by reason of small volume:
  - (a) Any discharge in excess of 150°F (65°C).
  - (b) Any discharge containing more than background level of radioactivity.
  - (c) Any discharge containing more than 25 mg/l of mineral oil or grease.
  - (d) Any discharge containing floatable oil or grease.
  - (e) Any discharge of heavy metals, cyanides or any other toxic materials in toxic amounts, which amounts are to be established by PVSC.
  - (f) Any discharge quantities of flow or concentration which shall constitute a "slug". A "slug" shall mean a discharge of a rate of flow or concentration of any given constituent which exceeds for any period of 15 minutes more than five times the average daily concentration.
  - (g) Wastes with pH outside the limits of 5.0 to 9.0.
- 20) Each major industrial user shall construct or otherwise have available a sampling point for sampling wastewater before it enters the municipal sewer system. Other industrial users may be required to construct such sampling point.
- 21) No discharge into the treatment facilities of PVSC shall be permitted from any source which causes physical damage, interferes with the treatment process, or results in a violation of effluent limitations or other conditions contained in the National Pollution Discharge Elimination System Permit to Discharge issued to PVSC by the USEPA.
- 22) Wherein required by USEPA, NJDEP, or the PVSC permit, each industrial user shall monitor its flow and maintain records in accordance with 40 CFR 136.3 or subsequent amendments.

- 23) If the industrial user violates any of the terms of the permit or regulations, he shall be subject to civil and/or criminal penalties and fines in accordance with judicial procedures as provided for in Section 309 of P.L. 92-500.
- 24) Violation of any of the terms of the permit or regulations, or of any municipal ordinance, may result in the termination of the permit and/or termination of authorization to discharge into the PVSC system.
- 25) The within rules and regulations shall be effective August 1, 1976.

# INDUSTRIAL SEWER CONNECTION APPLICATION

| Name  |              |
|---|--------------|
| Number & Street   |              |
| Municipality  |              |
| Primary Standard Industrial Classification Code   |              |
| Principal Product   |              |
| Principal Raw Material  |              |
| Flow (Indicate the volume of waste discharged to the PVSC system in thousand gallons per day and whether the discharge is in- termittent or con- tinuous) |              |
| The undersigned being the (owners, lessee, tenant, etc.)  | of the above |
| property does hereby request a permit to (install, use)   | an in-       |
| dustrial sewer connection to discharge into the (size)  |              |
| (municipality, PVSC) sewer located at   | •            |
| The size of the connection is inches.   |              |
| A plan of the property showing aggregately all severe   |              |

A plan of the property showing accurately all sewers and drains now existing, together with existing or proposed sampling point, is attached hereto as Exhibit "A".

Details of the connection to the public sewer is shown as Exhibit "B".

A schedule of all process waters and industrial wastes produced or expected to be produced at said property, including a description of the character of each waste, daily volume, maximum rates of discharge, duration of discharge, and a representative analysis is attached as Exhibit "C".

845990117

|        | 11a - a    | name and telephone number of the person to call for further  |
|--------|------------|--|
| detail |            |  |
| 3      | n c        | onsideration of the granting of this permit, the undersigned   |
| agrees | 3 <b>:</b> |  |
|        | (1)        | To furnish any additional information relating to<br>the installation or use of the industrial sewer<br>for which this permit is being sought, if requested<br>by PVSC.  |
|        | (2)        | To accept and abide by all the rules and regulations of the PVSC and of the approving municipality.  |
|        | (3)        | To operate and maintain any waste pretreatment facilities, if such facilities are required by the USEPA, the MJDEP, or the PVSC, in an efficient manner at all times, at no expense to PVSC.   |
|        | (4)        | To cooperate at all times with the PVSC and their authorized representatives in their inspection, sampling and studying of the industrial wastes, and any facilities for pretreatment.   |
|        | (5)        | If the industry is classified as a major industry (USEPA definition) then, if requested by PVSC, install sampling or monitoring equipment as approved by PVSC.   |
|        | (6)        | To pay user charges and industrial cost recovery charges when such charges are promulgated by PVSC.  |
|        | (7)        | To notify PVSC immediately in the event of an accident, negligence or other occurrence that occasions a discharge to the sewer of any waste not covered by the permit or of a discharge to any of the streams under the jurisdiction of the PVSC.  |
|        | (8)        | To comply with all applicable Federal and State statutes and regulations as well as the terms of any National Pollutant Discharge Elimination System Permit to Discharge issued by the United States Environmental Protection Agency to the PVSC.  |
| DATE:  | : <u></u>  | SIGNED: (Applicant)  |
|        |            | A STATE OF THE STA |

If a corporation, attach resolution giving authority to make application

(Title)

The undersigned hereby certifies that it is the owner of the

| property and agrees that it will be               | responsible for all user charges     |  |  |  |  |  |  |  |  |
|---|--------------------------------------|--|--|--|--|--|--|--|--|
| and/or industrial cost recovery for               | any industrial waste emanating       |  |  |  |  |  |  |  |  |
| from the above property, and failure              | to pay such costs when levied        |  |  |  |  |  |  |  |  |
| shall subject the property to a lien              | on such property not to be lifted    |  |  |  |  |  |  |  |  |
| until all such costs plus interest shall be paid. |                                      |  |  |  |  |  |  |  |  |
| DATE:   | SIGNED:                              |  |  |  |  |  |  |  |  |
|   |                                      |  |  |  |  |  |  |  |  |
|   | TITLE:                               |  |  |  |  |  |  |  |  |
| If a corporation, attach resol                    | ution giving authority to sign ap-   |  |  |  |  |  |  |  |  |
| plication.  |                                      |  |  |  |  |  |  |  |  |
|   |                                      |  |  |  |  |  |  |  |  |
|   |                                      |  |  |  |  |  |  |  |  |
| The(municipality)                                 | _ hereby approves the above applica- |  |  |  |  |  |  |  |  |
| tion and certifies to PVSC that it                | will be responsible for payment for  |  |  |  |  |  |  |  |  |
| the wastewater discharge from the a               | bove plant into the PVSC system in   |  |  |  |  |  |  |  |  |
| accordance with the rules and regul               | ations of the PVSC.                  |  |  |  |  |  |  |  |  |
|   |                                      |  |  |  |  |  |  |  |  |
| DATE:   | SIGNED:                              |  |  |  |  |  |  |  |  |
|   | (Authorized Municipal Official)      |  |  |  |  |  |  |  |  |
| •   | TITLE:                               |  |  |  |  |  |  |  |  |
| • •   |                                      |  |  |  |  |  |  |  |  |
| APPROVED AT PVSC BOARD MEETING OF                 |                                      |  |  |  |  |  |  |  |  |
|   |                                      |  |  |  |  |  |  |  |  |
|   |                                      |  |  |  |  |  |  |  |  |
|   | STONED:                              |  |  |  |  |  |  |  |  |

Clerk of the Passaic Valley Sewerage Commissioners

# RULES AND REGULATIONS OF THE PVSC CONCERNING SEWER CONNECTION PERMITS

### 1) DEFINITIONS

As used in this regulation, the following words and terms shall have the meaning set forth below:

Industrial Cost Recovery - A charge to industrial users based on its use of PVSC facilities to repay the capital cost outlay of the Federal Share given PVSC under P.L. 92-500 allocable to the treatment of the wastes from the industrial user.

Industrial User - Any non-governmental user of PVSC facilities identified in the Standard Industrial Classification Manual 1972 as amended and supplemented under Divisions A, B, D, E, or I. A user may be excluded if it is determined that it introduces primarily segregated sanitary wastes.

Industrial Waste - The liquid waste from an industrial process, as distinct from sanitary waste. All wastes, except storm waters and sanitary wastes.

Major Industry - An industrial user of PVSC facilities
that:

- (a) has a flow of 50,000 gallons or more per average work day;
- (b) has in its waste, a toxic pollutant in toxic amounts; or,
- (c) is found by USEPA, NJDEP or PVSC to have significant impact, either singly or in combination with other contributing industries, on the PVSC treatment works or upon the quality of the effluent from the PVSC treatment works.

Municipality - The municipality wherein an industry or other user discharging to PVSC facilities is located.

NJDEP - New Jersey Department of Environmental Protection

(412) 255-3616

January 11, 1977

Mr. Herbert Wortreich N.J. State Dept. of Environmental Protection Bureau of Air Pollution Control P. O. Box 2807 Trenton, NJ 08625

Dear Mr. Wortreich:

Attached find the information requested jointly by the New Jersey Department of Environmental Protection and the U.S. Environmental Protection Agency for the Westinghouse plant at Newark, NJ. This mailing now completes the Westinghouse response to your request.

Yours truly,

B. A. Kerns, Manager Environmental Control Construction Technology

Attachment

/ml

# I. GIVENUL INFORMATION

| Company ha           | ma <u>. Westi</u>   | Ingliouse E   | <u>lectric</u>   | Corporat  | ion   |   |   |
|----------------------|---|---|--|---|---|---|---|
| fient                | Adoress   | 95 Orang  | e Stree  | <u>t</u>  | ·   |   |   |
|                      | City  | Newark,   | NJ   |   | Z(r C::::   | 07101                                       |   |
| 1201115              | lderess   | 95 Orang  | e Stree  | ·<br>   |   |   |   |
|                      | City  | Newark,   | 11.1   |   | Zip Code_   | 07101                                       |   |
| Person to            | contect about   | t form  | S. C. I  | annaccone   | !   |   |   |
| Telephone_           | 201-465-  | ·2432   |  | E_liorits.  | Engineer  | ing Manager                                 |   |
| /porox/mai           | e number of a   | employees   | 1,000  |   |   |   |   |
| Lature of            | Business  | Relav-Ins   | trument  | manufact  | uring   |   |   |
|                      | -   | ·   |  |   |   |   |   |
| S::#25               | -0877540  | _   | •  |   |   |   |   |
| Normal Ope           | rating sched  | vie   |  |   |   |   |   |
| 16                   | hrs./da;  | y <u> </u>  | <u> </u>   | s/wk  | 52  | vics./yrs.                                  |   |
| Apomoximat           | le Percent Se   | esonal Oper   | ration:  |   |   |   |   |
|                      | ,   |   |  |   |   |   |   |
|                      | • ;   |   |  |   |   |   |   |
|                      |   |   | <del></del>  |   | <del></del>   |   |   |
| Are voicti           | lie organic b<br>Ednesives, i   | the, etc. 1   | sed in y   | y museriel<br>Tur oberet  | itani <u>v</u>  | Yes   |   |
| If ha, s             | sign form and   | าเรียกทั  |  |   |   |   |   |
| If Yes,              | sign form an  | d complete  | enly the   | anoisteaa   | ត្រាស់សារីត   | ב לם זקטה ספברנלום                          | :2 <i>n</i> :   |
| II. De               | greasing  |   |  |   |   | 2, <u>2 &amp; 9</u>                         |   |
| III. Su              | rface Costing   | . Applicatio  | ons  |   |   | •   |   |
| $\times$ $\lambda$ . | Fabric and  | Rubbertand  |  | .~~- <del>-</del> *   |   | 5, 8 & 9                                    |   |
| E.                   | Protective  | อก อียออกอย่า   | ive other  | 11128 III.  | <u>,</u>  | 4, 8 & 9                                    |   |
| ٤.                   | Frinting  |   |  |   |   | E <sub>3</sub> B & S                        |   |
|                      |   | • ,   |  |   |   |   |   |
|                      | (#.2%E\$3 <b>\</b> E  |   |  |   |   |   |   |
|                      |   |   |  |   |   |   |   |
|                      | Floring  Ferson to Telephone Approximat  Acture of  Sit #25  Normal Ope  16  Approximat  Are volations  17 No. 5  17 Yes.  II. Dellis.  A. B. | City  Living Address  City  Person to contect about  Telephone 201-465-  Approximate number of a  Lature of Business  SIT #25-0877540  Mormal Operating sched  16 hrs./da  Approximate Percent Se    Dec-Fe   25  Are volatile organic of convirgo, achesives, if  If No., sign form and  If Yes, sign form and | City Newark,  City Newark,  City Newark,  Person to contect about form  Telephone 201-465-2432  Approximate number of employees  Lature of Business Relay-Ins  Sic #25-0877540  Mormal Operating schedule  16 hrs./day 5  Approximate Percent Seasonal Oper  Dec-Feb Nath-Nay  25 25  Are volatile organic or solvent-convings, adhesives, inks, etc. If No. sign form and complete  II. Surface Conting Application  A. Fabric and Rubbariand  E. Frotective or Decoration  C. Printing | City Newark, NJ  Lifting Adoress 95 Orange Street  City Newark, NJ  Person to contact about form S. C. It  Telephone 201-465-2432 Titl  Approximate number of employees 1,000  Lature of Business Relay-Instrument  Sit #25-0877540  Mormal Operating schedule  16 hrs./day 5 day  Approximate Percent Seasonal Operation:    Dec-Feb   Len-May   Jun-Aug   25   25   25  Are volatile organic or solvent-containing contage, adhesives, inks, etc. used in y  1f No. sign form and roturn  If Yes, sign form and complete only the  II. Surface Conting Applications  A. Fabric and Rubberhard  E. Frotective or Decorative other  C. Printing | City Newark, NJ  Lifting Adoress 95 Orange Street  City Newark, NJ  Ferson to contest about form S. C. Iannaccone  Telephone 201-465-2432 Title Norths.  Approximate number of employees 1,000  Lature of Eusiness Relay-Instrument manufact  Sit #25-0877540  Normal Operating schedule  16 hrs./day 5 days/wk.  Approximate Percent Seasonal Operation:    Dec-Feb   Nor-Nay   Cun-Avg   Sect-Nov | City Newark, NJ Zir Coss    City Newark, NJ | City Newark, NJ 200 Cook 07101  Infiling Address 95 Orange Street  City Newark, NJ 200 Cook 07101  Foresh to contest about form S. C. Iannaccone  Teleprone 201-465-2432 Title Norks Engineering Manager  Approximate number of employees 1,000  Isture of Eusiness Relay-Instrument manufacturing  Sit #25-0877540  Normal Operating Schedule  16 hos./day 5 days/wh. 52 wits./yrs.  Approximate Percent Seasonal Operation:    Dest-Fet Num-Nay   dun-Avg   Sect-Nov   Total     25   25   25   1.25   1.005  Are volatile organic on solvent-containing materials such as cleaning fluids, contings, achieves, this, etc. used in your operation    If has, sign form and outplace only the sections participing to your operation    II. Degressing |

| F  | Type of degressing: D co                                   | id solvent cleaning                          |
|----|--|--|
|    | <b>∑</b> X ∨a  | por degreasing                               |
| Ε. | Type and amount of solvent b                               | unchased for degreasing operations.          |
|    | 1) Stoodard  | Sal /yr                                      |
|    | <pre>2) 1,1,1-Trichloroethane       (Chlorothane VG)</pre> |  |
|    | 3) Parchibrosthylene                                       | Gal /yr                                      |
|    | 4) Methylene chloride -                                    | GER /yr                                      |
|    | 5) Trichloroethylene                                       | 8,470 Gal /yr 51550BZ00A                     |
|    | 6) Other (specify) 1                                       | Gal /yr                                      |
|    | <ol> <li>Other (specify)</li> </ol>                        | Gal /yr                                      |
| c. | Name and Address of Solvent Suppliers 1.                   | Baron-Blakeslee                              |
|    |  | Garden City, NY 11530                        |
|    | . 2.   | McKesson Chemical                            |
|    | ·  | Avenel, KJ 07001                             |
|    | _  |  |
|    | ે.<br>• • • • • • • • • • • • • • • • • • •                |  |
|    | Append of each solvent retur                               | ened for reprocessing to vendor or collector |
|    | 1) Stoddard  | Gal /yr                                      |
|    | 2) 1,1,1-Trichloroethane                                   | Gal /yr                                      |
|    | 3) Ferchloroethylene                                       | Gal./yr                                      |
|    | 4) Metnylene chloride                                      | Gal /yr                                      |
|    | 5) Trichloroethylene                                       | None Gal /yr                                 |
|    | <li>6) Other (specify) 1</li>                              | Gal /yr                                      |
|    | 7) Other (steelfy)   | Gal /yr                                      |
| Ξ. |  | ti (landfill, netyple, sewan, atc.)          |
|    |  | Recycle                                      |
|    |  |  |

- (1) Material(s) being coated \_\_\_\_\_
- (2) Type of coating process:

| 1 1 | ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; | 14<br>(1 th 15<br>(1 11  | ,                               |           |  |         |                          |  |                 |   | <br> |  |      |   | <br>            | - • • • • |   | 70<br>70<br>C.C.<br>717<br>00           |                     |
|-----|---------------------------------------|--|---------------------------------|-----------|--|---------|--------------------------|--|-----------------|---|------|--|------|---|-----------------|-----------|---|---|---------------------|
| 1   |                                       | 7 (1)<br>6 (0, 3)<br>5 (0, 0)<br>5 (0, 0)  | Tip.                            |           | (3)                                    |         | $\widehat{\omega}$       |  | · <del></del> - |   | <br> |  | <br> |   | <br><del></del> |           | - | (n) (n)                                 |                     |
|     | ()<br>                                | 15 35 25<br>10 5 10<br>21 60<br>15 10 60<br>15 11 1  |                                 |           | ) - 1<br>1/2                           |         |                          |  |                 |   |      |  |      |   |                 |           |   | Hot Melt                                | ו ייי ו             |
| •   | 63.<br>63.                            | (1) (1) (1)<br>(2) (1) (1)<br>(3) (4) (6)<br>(4) (4) (7)<br>(4) (4) (7)  | (n)<br>(n)<br>(1)               | 6         | eny sc                                 |         | (i)<br>(i)<br>(i)<br>(i) |  |                 |   |      |  |      |   |                 |           |   |   |                     |
|     |                                       | 1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1   | (1)<br>(1)<br>(1)<br>(1)<br>(1) |           | SCIVERT                                |         | ()<br>()<br>()<br>()     |  |                 | • |      |  |      |   |                 |           |   | ក () ()<br>() ()<br>() ()               | 61.5                |
|     | * * * * * * * * * * * * * * * * * * * |  | (A)<br>(b)<br>(1)<br>(d)        | 100       | 70000000000000000000000000000000000000 |         | (A)<br>(A)<br>(B)        |  |                 |   |      |  |      |   |                 |           |   |   | :5582               |
|     | th<br>Ct                              |  | or T.                           |           | o.                                     | 1       |                          |  |                 |   |      |  |      | • |                 |           |   | Type of 2<br>Coating 2                  | ,                   |
|     |                                       | 900 000 000 000 000 000 000 000 000 000  | ε;<br>ε                         | FV:10     | suppli                                 |         |                          |  |                 |   |      |  |      |   |                 |           |   | 10 th                                   |                     |
|     |                                       | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | s<br>cse                        |           | er or                                  |         |                          |  |                 |   |      |  |      |   |                 |           |   | (C) | 1                   |
|     |                                       | 0 11 cf  | . ede 80                        |           | collec                                 |         |                          |  |                 |   |      |  |      |   |                 |           |   | (gal/yr)                                | Î<br>+ .            |
|     |                                       | 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | Sounce E                        | Amount    | lector?                                | Amount  | Allount                  |  |                 |   |      |  |      |   |                 |           |   | N 0 5                                   | -1                  |
|     |                                       | (F) CO (F | Toer.                           | 15.<br>   |  |         |                          |  | ,<br>,          |   |      |  |      |   | <br>            |           |   | Solvent<br>Solvent                      | ω<br>1              |
|     |                                       |  |                                 |           |  |         |                          |  |                 |   |      |  | <br> |   | <br>            |           |   | ф<br>                                   |                     |
|     |                                       |  | ,                               | 6         |  |         |                          |  |                 |   |      |  |      |   |                 |           |   | Solvent Adde to Costing (gal/yr)        | 1706 E              |
|     |                                       | • 0<br>0 m<br>11 c<br>11 c<br>11 c   | ,                               | (0:1///r) |  | (G17/Yr |                          |  |                 |   | <br> |  | <br> |   | <br>            | _         | - | t face<br>ting<br>/yr)                  | , ei 10<br>10<br>10 |

# THIS E. PROTECTIVE OF DESCRIPTIVE CONTINUES I HAVE AND A POST OF THE PARTY OF

1. Indicate raterial being coated Aluminum Plates, Steel, Phenolic,
Electromagnets

2. Type and amount of coating used:

|   | unce <sup>k</sup> | State Additionation Method:   Spraying, Donning, Polier, | Type of painth | Simount<br>Gals /jm | sclics      | (Type* and % cf major solverus |
|---|-------------------|--|----------------|---------------------|-------------|--------------------------------|
|   |                   | Flow, etc.   |                |                     |             |                                |
|   | 2(a)              | Spraying (white)   | Lacquer        | 250                 | 50          |                                |
| - |                   | (D-B)  |                |                     |             | Xvlene 70                      |
|   | 0/5)              | Spraying (acrylic)                                       | Enamel         | 15                  | 30          |                                |
| - | 2(b)              | (N-1)  |                |                     |             | Xvlene 55                      |
|   | 3                 | Spraving (black)   | Enamel         | 3,050               | 45          | (1,677 gals.)                  |
|   |                   | (F-3)  |                |                     |             | Lac. Thinner   55              |
|   | 4                 | Spraying (150)   | Lacquer        | 420                 | 45          | (230 gals.)                    |
| - |                   | (F-3)  |                |                     | ;<br>}<br>! | Xylene 55                      |
|   | 5                 | Spraying (28Q)   | Enamel         | 150                 | 45          | (80 gals.)                     |

2. Type and amount of thinner used for dilution and cleaning not included above

Type Xylene Amount 380 Gai /ym

Type Lacquer Thinner Amount 330 Gai /ym

# 4. Please complete Section V. page 8.

A source is an individual or similar pieces of equipment such as spray booths, tanks, dryers, etc. It should correspond to the Source Number on page 8. If applicable, it should also correspond to previously reported sources in "Air sollution Emissions recont" (Form 158-R75).

to formet, variable, see The Recipient enamel, uniner, etc.

- 1. Indicate material being coated \_\_\_\_\_\_ Electromagnets \_\_\_\_\_\_.
- Type and prount of costing used:

| Cource + | - State Application Nathod:<br>Spraying 1 oping, Foller,<br>1904, etc. | Type of paint2 | 7-1-5<br>3:15 / 1- / | , sollids | Type* and & of major spiners |           |
|----------|--|----------------|----------------------|-----------|------------------------------|-----------|
|          | (F-3)  |                |                      | •         | Acetone                      | ] 40<br>1 |
| 6        | Dipping (Viny1)  | Lac.           | 262                  | 20        | Toluene                      | 1         |
|          | (F-3)  |                |                      |           | Methyl<br>Cellosolve         | 5.1       |
| 7        | Dip (Silicone)   | Varnish_       | 15                   | 49        | (9 gals.)                    |           |
|          | (F-3)  |                |                      | ;<br>!    | Mineral                      |           |
| ì        |  |                |                      |           | Spirits-                     | 150       |
| 8        | Dip (Black)  | Varnish        | 210                  | 50        |                              | <u> </u>  |
|          |  |                |                      |           |                              |           |
| 1        |  | ļ              |                      | •         |                              |           |
|          |  |                |                      |           | •                            |           |
|          |  |                |                      | · ,       |                              | 1         |
| 1        |  |                |                      |           |                              |           |
|          | :  |                |                      |           | 1                            | 1         |

2. Tyrus and around of thinner used for dilution and cleaning not included above. Acetone

455

Type Toluene Amount 155 Gil /yr

Methyl Cellosolve 90

Type Mineral Spirits Amount 1390 Gal /yr

# 4. Plane seriete Section V. page 8.

A source is an individual or similar pieces of equipment such as spray booths, tanks, dryers, etc. It should correspond to the Source Number on page 8. If applicable, it should also correspond to previously recorded sources in "Air collector Enjastons respond" (Form 158-R75).

Police, varnish, socilies incoper, enamel, primer and

A life Attended to the

- 1. Indicate material being coated Misc. Metals, Micarta,
  Phenolic, etc.
- 2. Type and excumt of coating used:

| Source 1<br>Number | - State Application Mathod:<br>Spraying, Proming, Roller,<br>Flow, etc. | Type of paint2  | impunt<br>Gals vin | solids | Typef and % of major splitters |               |
|--------------------|---|-----------------|--------------------|--------|--------------------------------|---------------|
| -                  |   |                 |                    |        | Lacquer                        | 1             |
|                    | (F1)  |                 |                    | 1      | Thinner                        | 55            |
| 9(a)               | Spraying  | Lacquer         | 75                 | 45     | 1                              | 1             |
|                    | (R-1)   |                 |                    |        | Toluene                        | . <u>. 55</u> |
|                    |   | Black<br>Enamel | 30                 | 45     |                                |               |
| 9(c)               | Spraving  |                 |                    |        | Toluene                        | 55            |
|                    |   | Epoxy<br>Cement | 10                 | 55     |                                |               |
|                    |   |                 |                    |        | Toluene                        | 55            |
|                    | •   | Varnish         | 14                 | 45     |                                |               |
| <del></del>        |   |                 |                    |        | Buryl                          | !             |
|                    | (R-1)   |                 | t .                |        | Alcohol                        | 30            |
| 9(d)               | Spraying  | Enamel          | 10                 | 40     | Solvesso                       | 30            |
|                    |   |                 |                    |        |                                | Negl          |

# A. Plante armalete Section V. page 8.

Type \_\_\_\_\_

A scarce is an individual or similar pieces of equipment such as spray booths, torks, dryers, etc. It should correspond to the Source Number on page 8. If applicable, it should also correspond to previously reported sources in "Air collustrant Emissions report" (Form 188-A75).

Police to winder, exclusionables, examely insmort exp.

2. Type and amount of couting used:

| Cource 1 | - State Addition Method:<br>Spraying, Porting, Polier,<br>Flow, etc. | Type of paint2    | /maunt<br>- Gals /yr | . &<br> -colids | llyper and % tof major activates |       |
|----------|--|-------------------|----------------------|-----------------|----------------------------------|-------|
|          |  |                   |                      | i               | Xvlene                           | 55    |
|          | (R-1)  |                   |                      |                 |                                  | ;<br> |
| 9(b)     | Spraying   | Lacquer           | 3                    | 45              |                                  | 1     |
|          | 11   | Primer            | 3.4                  | 45              | Xvlene                           | 55    |
|          | 11   | Black Ename       | 1 240                | 45              |                                  | _     |
|          | **   | Brown Ename       | 1 4                  | 45              | <u>;</u> 11                      |       |
| -        |  | į į               |                      | į               | †                                |       |
| ·        | 91   | Acrylic<br>Enamel | 68                   | 45              | "                                |       |
|          |  |                   |                      |                 |                                  |       |
|          |  | <del></del>       |                      |                 |                                  |       |
|          |  |                   | <br>                 |                 |                                  |       |
|          | tr'  | Gray<br>Enamel    | 2                    | 45              | i II                             |       |
|          |  | Gray              |                      | •               |                                  |       |
|          | )<br>;   | Hammer<br>Enamel  | 15                   | 45              |                                  |       |

| 3. |               | and amount of | chinner | used | for  | dilution | and | cleaning          | not | inclused |
|----|---------------|---------------|---------|------|------|----------|-----|-------------------|-----|----------|
|    | ubove<br>Type | <u>Xvlene</u> |         | Amot | ınt_ | 88       |     | GE <sup>1</sup> , | /yr |          |
|    | Type          |               |         | Ama: | unt_ |          |     | Ga1               | /yr | •        |

4. Please amplete Section V. page 8.

A source is an individual or similar pieces of equipment such as simplicaths, tarks, dryers, similar should commespend to the Source Number of tage 3. If applicable, it should also commespend to proviously reported source: in "Air sollution Emissions recont" (Form 188-A75).

For Formotion warmish, should be a lack temp awar all, minimum, attached

# III-C. PAIKTING

| (1) | Material | being | coated |  |
|-----|----------|-------|--------|--|
|-----|----------|-------|--------|--|

| 121 | Type of | printing  | process: |
|-----|---------|-----------|----------|
| 121 | IVDA DI | D: [H5119 | D100000. |

| Source 1 | State Printing Process:<br>Letteroress, Flexographic,<br>Lithographic, Gravure,<br>Sorset, etc | Type of Ink <sup>2</sup> | Amount<br>(15/yr) | Type 2 and 2 of elect<br>solvence in in |
|----------|--|--------------------------|-------------------|---|
|          |  |                          |                   |   |
|          |  |                          |                   |   |
|          |  |                          |                   |   |
|          | •  |                          |                   |   |

| (3) | Type <sup>i</sup> and amount included above: | of | sclvent | used | for | dilution | end | cleaning | hột | •   |
|-----|--|----|---------|------|-----|----------|-----|----------|-----|-----|
|     | included above: Type                         |    |         |      |     | Amount _ |     |          | 1 / | 'yr |
|     | Type   |    |         |      |     | Amount _ |     | Gà       | 1 / | /yr |

(4) Flease complete Section V. p. 8; use same Source Number.

2 Solvent based, oil based, lacquer-type, etc.

to the l<del>a</del>teriors l.

A source is an individual or similar printing machines, dryers, rtc. It should correspond to the Source Number on page 8. If applicable, it chould example correspond to previously reported sources in "Air Pollution Emissions Report" (Form 188-R7E).

III- D. MISCELLAMENUS SURFACE CONTING APPLICATION (Adhesives, Faber, Leatner, Films, Glass, etc.)

| (1) | Material(s) | being | costed Fiberglas |
|-----|-------------|-------|------------------|
|-----|-------------|-------|------------------|

(2) Type of coating process:

| Source Number 1 | State Coating Process:<br>Spray, Flow, Dip,<br>Roller, Brush, etc. | Type of | Amount of .<br>Costing<br>(Gal/yr) | ได้กับสกปอ รัก |     |
|-----------------|--|---------|------------------------------------|----------------|-----|
|                 |  |         |                                    | Lac. Thinner   | 60_ |
| 10              | Dip - Clearseal  | Barrier | 19.4                               |                |     |
|                 | •  | •       | :                                  |                |     |
|                 | •  |         |                                    |                | 1   |
|                 | . •  |         |                                    |                |     |

| (3) | Type: and additional          | ಕದರಿಭಗಳ | cf          | solvent | used  | for | <b>dil</b> lution | 1.13 | : :::::::::::::::::::::::::::::::::::: |
|-----|-------------------------------|---------|-------------|---------|-------|-----|-------------------|------|--|
|     | not included spays in<br>Tyre |         | <del></del> |         | Ambus | nt  |                   |      | _017/yr                                |
|     | Tyres                         |         |             |         | Ambur | :t  |                   |      | _011/jor                               |

A control of the contro

<sup>(1)</sup> Prease complete Continua V, page 8; use the same Source haven.

i properties of the state of the state of the infector of equipment resing sumface continues to the life of the continues of the continues of the continues of the life of the continues of the life of the life of the continues of the life of th

| Course<br>Suction | Process or operation using organic materials <sup>2</sup> | Type of material processed <sup>3</sup> | Annual thruput at source | Type" and % of solvent in mate | erlal | Quantity of volatile solvent lost to atmosphere during process (lbs/yr) | Mothod used<br>to determine<br>emissions<br>(quess, mater-<br>ial balance or<br>stack monitor) |
|-------------------|---|---|--------------------------|--------------------------------|-------|---|--|
| 11                | Spray Jet Cleaner   | Epoxy Ink                               | 150 gals.                | Loc. Thinner                   | 100   | 30 gals. or   | Material<br>Balance  |
|                   |   |   |                          |                                |       |   | . ,  |
| -                 |   |   |                          |                                |       |   |  |
|                   |   |   |                          |                                |       |   |  |
| 1                 |   |   |                          |                                |       |   |  |

2) Please complete Section V, page 8; use same Source Number.

A course is an individual or similar pieces of equipment processing organic materials. It should correspond to the Source Number on page 8. If applicable, it should also correspond to previously reported sources in "Air Pollution Federal Report" (form 158-R75).

<sup>2</sup> Degree, reactor, mixing tank, etc.

<sup>3 (</sup>who), varnish, shellac, lacquer, enamel, primer, adhesive, ink, other (specify).

<sup>&</sup>quot; Ser Attachment 1.

|   |                      | (3)                                   | (4)  | (5)  | (6)                                | (7)                             | (8)                                | (9)                                   | (12)    |                         | (               | <br>11)        |                | 901     |
|---|----------------------|---------------------------------------|------|--|------------------------------------|---------------------------------|------------------------------------|---------------------------------------|---------|-------------------------|-----------------|----------------|----------------|---------|
|   | 5 ( ) ( )<br>( ) ( ) | Centurinant                           |      | Quantity<br>(Gals/yr   | Potential                          | Organic<br>Centrol<br>Equipment | Pesign<br>Efficiency<br>of Centrel | Operating<br>Efficiency<br>of Control | Date of | Stock<br>Height<br>(ft) | Data<br>Linside | 100            | The a          | 8459901 |
|   | Steam<br>Roller      | Sulphur                               | 0.3  | 6,000#   | 3                                  | lione                           |                                    |                                       |         | 140                     | _ 5             | 400            | 2,000          | :<br>:  |
|   | D-B Spray            | Xylene                                | _50  | _205   | 0.77                               | None                            |                                    |                                       |         |                         |                 |                |                | 60      |
|   | D-B Spray            | Xylene                                | 70   | 10.5   | 0.04                               | None                            |                                    | -                                     | -       | _                       |                 |                |                | Same    |
|   | Booth.               | · · · · · · · · · · · · · · · · · · · |      | The state of the s | anne, gen whereh redhigare de gare |                                 |                                    |                                       |         |                         |                 | <u> </u>       |                |         |
|   |                      | Xylene                                | 55   | 2.058  | 7.4                                | 11                              |                                    |                                       |         |                         | _ <b>=</b> .    |                | . <del>.</del> | 60      |
|   | Rooth                | Lac. Thin.                            | 100  | 250  | 0.94                               | 11                              |                                    |                                       |         |                         |                 | i .            |                | Same    |
|   | F-3<br>Şuşav Boot    | h " "                                 | 55   | 260  | 0.96                               | 11                              |                                    |                                       |         | <b>=</b>                | · ·             |                |                | 60      |
|   | Spray Boot           | h Xylene                              | _55_ | 120  | 0.45                               | 11                              |                                    | · <u>-</u>                            |         |                         |                 | <b>.</b>       |                | 60      |
| • | 1-3<br>Dip-Vinyl     | Acetone                               | 40   | 260  | 0.97                               | 11                              |                                    |                                       |         | !                       |                 | . <del>.</del> |                | 40      |
|   |                      | Toluene                               | 40   | 260  | 0.97                               | **                              | -                                  | -                                     | -       | -                       | -               | -              |                | Same    |

contains the last section on page 9.

and instructions for this section follow.

| ,                               | (3)                           | (4)  | (5)      | (6)                    | (7)                             | (11)  | (4).   | (11)                         |                         | (1          | 1)         |        | <u>(1</u> ,        |
|---------------------------------|-------------------------------|------|----------|------------------------|---------------------------------|---|--|------------------------------|-------------------------|-------------|------------|--------|--------------------|
|                                 | ontaminant                    | X.   | Quantity | Potential<br>Emissions | Organic<br>Control<br>Equipment | Design<br>Efficiency<br>of Control<br>Equipment | Operating<br>Efficiency<br>of Control<br>Equipment | Date of<br>Instal-<br>lation | Stack<br>Hejght<br>(ft) |             | (r*)       |        | L »<br>hi +<br>{4! |
| F-3<br>DJg-5111 cone            | Methyl-<br>Cellos <b>olve</b> | .51  | 108      | 0.45                   | None                            |   |  | _                            |                         |             | _          |        | 60                 |
| Dip Varnish                     | Spirits                       | 50   | 1495_    | 5.6                    |                                 |   |  | **                           |                         | -           | -          |        | 40                 |
| - ⇔"pi - Booth                  |                               | _55  | 250      | 0.94                   | 11                              | _   |  | -                            |                         | -           | _          |        | 60                 |
| (1) (1) (1) (1) (1) (1) (1) (1) | Xylen <b>e</b>                | 55   | 270      | 0.98                   | 11                              | -   | -  |                              |                         | _           | -          |        | Same               |
| e) " " "                        | Toluene                       | _55  | 46       | 0.17                   | 11                              |   |  |                              |                         |             |            |        | Same               |
| -i) " " I                       | Butul Alcoho                  | 1 30 | 8        | 0.03                   | "                               | -   |  |                              |                         |             | , <b>-</b> |        | Same               |
| D-3<br>  DJp-Clearse<br>  D-3   | Lac.<br>11 Thin.              | 60   | 23       | 0.08                   |                                 |   |  | ·                            | . a. <del></del>        |             |            |        | 40                 |
| D-3<br>Spray Cleand             | ng Thin.                      | 100  | 30       | 0.12                   | tt .                            |   |  |                              | . <b>=</b>              |             | -          |        | 40                 |
| Degreaser_                      | Trichlor                      | 100  | 1650     | 8.16                   | ***                             |   |  |                              |                         |             | - :        |        | 60                 |
| 01 "                            | 11                            | 100  | 3120     | _14.8                  | 11                              |   |  |                              |                         |             |            |        | 60                 |
| 11 "                            | 11                            | 100  | 2500     | 12.3                   | 11                              | -   | _  | -                            | -                       | <del></del> | _          | 1<br>1 | 60                 |
| Il Disc.                        | 11                            | 100  | 1200     | 5.94                   | 11                              | _   | Section Comments (4.1)                             | pris                         |                         |             | -          |        | 60                 |

1773 couplete the last section on page 9.

Special instructions for this section follow.

"summing of readoutide in the process of the of the container and the continuous stack, provide height, diameter, temperature and flow rate . Indicate installation date of control equipment. thousings for the approximate present operating efficiency. To be design **efficiency.** \*370 'S.to a co i, and the organic substance control method used such as after burners, scrubbers, carbon adsorption, the the emission rate potential in tons per year. to the minimum distribly in gallons of the total solvent mixture. The contents of the total solvent mixture put into the process, which is represented by each . Gilma (e) i i co technord, specify the primary air contaminants emitted by complete name. On not abbreviate or "Shine to he had and tank, spray booth, reactor, etc. If more than one unit is emitting to a common stack, specify 🗀 raach process or operation from Which organic substances are emitted. For example, dry cleaner, wited out. It similar equipment have different control equipment please split the source number is the treath and vented to a common stack. The Source Number should correspond to the sections preto radmun **a of to eachetelus ainague e**d implication of the confirmation of the confi

-183-

the control of the supergrades of the state 
# VI - BULK SOLVENT STORAGE

7 Please complete the following information for each solvent storage tank greater than 250 callons capacity.

|                                    |  |  |  |  |                | Tenk No.                                   |
|------------------------------------|--|--|--|--|----------------|--|
|                                    |  |  |  |  | Trichlor       | - Storege tenk greet Type 1 Cap            |
| transmission one of the distribute |  |  |  |  | 560            | Capacity                                   |
|                                    |  |  |  |  | 8,200          | Amnual<br>Thrungt                          |
|                                    | The second of th |  |  |  | Submerged Fill | Type of Fill and Control Type Transfer and |

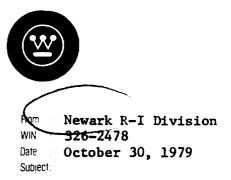
<sup>4</sup> See Attachment 1.

<sup>,</sup> Liberged fill, splest fill, return ventiling. BONDADEL GEO.

| 4  |    | ALTACIOTAL 1*                  |     |                                 | 57 | Other Lormates                     |
|--|----|--------------------------------|-----|---------------------------------|----|------------------------------------|
|  |    | • •                            |     | •                               | 58 | Isopropyl Acetate                  |
|  |    | OPHANICS                       |     |                                 | 59 | Other Acetates                     |
|  |    |                                |     |                                 | 60 | Other Aliphatic Esters             |
| * *** *.   |    | Arresite Arids and Esters      |     | Allphatte Alcohols & Ethers     |    | Allphatic Halogen Compounds        |
|  | 19 | All Aromatic Acids             | 7.6 | "ethyl Alcohol (Rejhanol) "     | 61 | Bothyl Chloride                    |
| Control 195  | 20 | All Aromatic Esters            | 35  | Ethyl Alcohol (Ethanol)         | 62 | Chloroform                         |
|  |    |                                | 16  | Isopropyl Alcohol               | 61 | Carbon letrachloride .             |
|  |    | Aromatic Halomen Compounds     | 37  | Isobutyl Alcohol                | 64 | Perchloroethylene                  |
|  | 21 | All browning thalogens         | 3/1 | Other Allphatic Alcohol         | 65 | Triching of hang                   |
|  |    |                                | 39  | Directly 1 Ether                | 66 | Irichloroethylene                  |
|  |    | Armentic Hitrogen Compounds    | 40  | Ethyl Ether                     | 67 | Physgene                           |
|  | 77 | Accordic ferines               | 41  | Other Allphatic Ethers          | 68 | Vinyl Chloride                     |
|  | 21 | Assessing N Compagnds          |     |                                 | 67 | Other Allphatic Chioride Compounds |
|  |    |                                |     | Aliphatic Aldehydes & Ketores   | 70 | Bethyl Browide                     |
|  |    | Arm it is fulfur Compounds     | 12  | Loreatdeliyde                   | 71 | Vinyl Brownde                      |
|  | 74 | 614 Accounted Sulfar Loopounds | 43  | Acetaldebyde                    | 12 | Otter Aliphatic Bromides           |
| "", "", """)   |    |                                | 44  | Accolein                        | 73 | Pothyl Indide                      |
| telling  |    | Mirrellaneous                  | 45  | Other Aliphatic Aldehydes       | 74 | Other Alighatic Indines            |
| er liartini)   | 75 | All Other Aromatic Gases       | 44  | Direthyl Fetone (Acetone)       | 75 | Other Aliphatic Halogens           |
|  |    | •                              | 4/  | Diethyl Fetgae                  |    | ·                                  |
|  |    | •                              | 411 | Pothyl Ethyl Ketone (MFK)       |    | Aliphatic Mitaggea Compounds       |
| · 15   |    | VETERINETE ORGANICE            | 47  | Mothyl Butyl Felone (Mexanone)  | 76 | Hydrogen (yantdo                   |
|  |    | •                              | 50  | Pethyl (sobuty) Ketone (Hexane. | 11 | Cyantile Compounds MCC             |
| -1 tittions  |    | Aliphatic Hydrocarbons         |     | HIDE)                           | 7B | Aniline                            |
| 1.   | 25 | Pethane                        | 51  | Other Allphatic Ketones         | 79 | Hydrozine                          |
| •  | 27 | Other Don-Methane Alkanes      |     |                                 | 80 | Pothyl Anine                       |
|  | 73 | Tertyleng                      |     | Aliphatic Acids and Esters      | 81 | Other Allphatic Amines             |
| \$ Yethers   | 77 | But con                        | 52  | Lorente Acid                    |    |                                    |
|  | 37 | Ethylone                       | 53  | Aretic Acid                     |    | Allphatic Sulfur Compounds         |
| the section of the se | 31 | Propylene                      | 54  | Other Aliphotic Acids           | 82 | Nothyl Percaptan                   |
|  | 35 | Other Allenes                  | 55  | Mothy3 formate                  | 83 | Ethyl Mercaptan                    |
|  | 33 | Creer Allphatic Hydrocarbons   | 56  | Lthyl formate                   | 84 | Carbon Disultide                   |

| 1117 | (ant At A., representation)  |
|------|------------------------------|
| P6   | Other Allphatic Percaptage   |
| 87   | Dimethy' Sulfide             |
| nn   | Dimethy' Disultide           |
| 89   | plethyl Sulfide              |
| 0(1  | Other Aliphatic Sulfide      |
| 91   | Other Aliphatic Sulfur tem   |
|      | Hiscottaneous Organic Co esc |
| 92   | Gisolina                     |
| 9)   | Ferosene                     |
| 94   | Paint Thinner                |
| 95   | Organic Salvents             |
| 96   | Sulfanic Acid                |
| 97   | Ron-Special Oferous Digital  |
| 98   | Radion tire Organics         |
| 99   | Miscellaneous theymics       |
|      |                              |

the service used in place of name of compound.



B. A. Kerns, Manager Environmental Control Construction Technology (W) Building, Room 1601 Pittsburgh, PA

cc: W. J. Schmidt, Manager of Quality Assurance, C3

Thank you for forwarding to me copies of some of the pages of Environmental Protection Agency Regulations on Oil Pollution Prevention.

We have a number of oil filled transformers, none over 330 gallons each, but in total, over 1320 gallons, located in several vaults in the basement of our building. We also have buried a 30,000 gallon and a 550 gallon fuel oil tank. Based on the recommendation given us by the (W) review team that visited us recently, we are not preparing an SPCC plan.

Your comments will be welcome.

Peter S. Safran Mfg. Engineer/Wks. Engrg.

PS Sa Fran

PSS/dlp

# WESTINGHOUSE ENVIRONMENTAL CONTROL SURVEY

| Location of Plant (City, County, State) Newarl: Essex, NJ  | C. Cooling Water   |
|--|--|
| Survey Prepared By W. T. Duck Date 6/9/80  Products Relays & Instruments   | <ol> <li>Is cooling water recycled? <u>Yes</u> If yes, indicate processes for treatment prior to recycle. Cooling towers for air conditioners.*</li> </ol> |
| 170000W  | 2. Volume treated per week. 3.6 x 106 gals.  |
| Normal Plant Operation   |  |
|  | 3. Blowdown (gallons per week) 36,000  |
| A. Circle one: 1 (2) 3 Shifts Per Day  |  |
| D. C. J. D. D. Wash  | 4. Disposal of blowdown -  |
| B. Circle one: (5) 6 7 Days Per Week   | Storm Sewer Sanitary Sewer   |
| C. Number of employes 400  | Glorin Botto   |
|  | Surface Watercourse  |
| I. WATER SURVEY  | W. 12 -12 - 1 - 1 - 1  |
|  | Other (Explain) Combination storm-   |
| A. Water Supply  | sanitary city sever  |
| <ol> <li>Total incoming water 3,006,000 gallons<br/>per week.</li> </ol>   | <ul> <li>D. Liquid wastes from air pollution control devices<br/>(wet scrubbers, etc.)</li> </ul>  |
|  | 7.000  |
| 2. Source of water - circle one or more:   | 1. Volume (gal. per day or shift) 1,000  |
| River Private Well   | 2. Source Well Water   |
| Municipal Water Supply Other (Specify)   | 3. Analyses <u>Hicarta dust in waste</u> water   |
| B. Water Usage (Gallons per week or percentages  |  |
| of total incoming water supply. If percentages   | E. Water Conservation  |
| are used, total should be 100%.)   |  |
| 4. Demonstrate the test to a contract of the decomposition   | 1. Do you recycle any water? No  |
| 1. Domestic (drinking, sanitary, food preparation) 22% 672,000   | 2. If so, specify source of recycled water by process  |
| 2. Cooling 26% 774,000   |  |
|  | 3. Volume of water recycled  |
| 3. Process 140 435,600   |  |
| 4. Other (Examples: boilers - landscape)   | 4. Treatment of water previous to recycling  |
| Boilers 25 40,230  | E Analyses of support recorded often transferred   |
| *Well water overflow 36% 1,084,000  5. Does incoming process water require addi-   | 5. Analyses of water recycled after treatment  |
| tional treatment? No   |  |
| TOTAL TOTAL CONTROL OF THE PARTY OF THE PART |  |
| *Well water tank overflow returns to well.   | *Dearborn 909 Briquettes -<br>non-chromate.  |

AR 3255

Ð

| F. |    | eatment of waste s                            | water prior to final dis-   |
|----|----|---|---|
|    | 1. | Volume (gallons per                           | r shift or day) <u>None</u>   |
|    | 2. | ·   | Circle one or more. If more than one, estimate percentage of volume for each. |
|    |    | Municipal Sewer                               | Surface Watercourse   |
|    |    | Deepwell                                      | Storm Drain   |
|    | 3. | Please describe profacilities                 | etreatment or treatment   |
|    |    | None  |   |
|    |    |   |   |
|    |    |   |   |
| G. |    | sposal of side stream<br>ude solutions hauled | s (sludge, other solids; in-<br>away)   |
|    | Ma | aterial Disposa                               | Quantity Per Week   |

Licensed

Hauler

l Drum/Year

Ferric

Chloride

| _  | None to date                                      |      |  |  |  |  |  |  |
|----|---|------|--|--|--|--|--|--|
| _  |   |      |  |  |  |  |  |  |
| _  |   |      |  |  |  |  |  |  |
| 1. | Annual operating costs                            | Mone |  |  |  |  |  |  |
|    | Annual operating costs Cost of hauling (annual) _ |      |  |  |  |  |  |  |

Please attach copy of effluent standards you must meet.

 List regulatory agencies which now control discharge of liquid wastes and wastewaters.

Additional comments: (Please send us as much pertinent data as possible, including any reports you have made either internally or for regulating agencies. Please list any references you think would be useful in this audit, and name any individuals who could supply additional information.)

J. Manufacturing Processes - Complete a separate process sheet for each manufacturing process used. See attached examples.

| Name Phosphating Steel              |
|-------------------------------------|
| Description (List steps in process) |
| 1. Electroclean                     |
| 2. Rinse                            |
| 3. Fre-Dip                          |
| 4. Phosphate                        |
| 5. Rinse, Hot                       |
| 6. Rinse, Chromic                   |
| 7. Dry                              |
| 8                                   |
| 9                                   |

Process production rate (average weekly production by unit: i.e. pounds per week)

4000 lb/wk.

| Chemicals used (by steps above) (us | Quantity<br>sed per week) | Concentration           | By percentage: | Disposal<br>3 columns sho | ould total 100% |
|-------------------------------------|---------------------------|-------------------------|----------------|---------------------------|-----------------|
| <del></del>                         |                           |                         | Hauled away    | Flush                     | Consumed '      |
| Clepo 43R<br>(Alkaline Cleane       | 25 lb.                    | 10 oz/gal.              | O%             | 5%                        | 95%             |
| Rinse 2, 5                          | 24,000 gal<br>per week    | •                       | 0%             | 95 %                      | 5%              |
| Dibasic Phosphat                    | e 28 lb.                  | l oz/gal.               | 0%             | 90%                       | 10%             |
| Bonderite 97                        | 40 lb.                    | 0.56 lb/gal             | 0%             | 10%                       | 90%             |
| Chromic Acid<br>Phosphoric Acid     | 8 <b>2</b> g<br>69 ml     | .46 g/gal<br>.39 ml/gal | 0%             | 95%                       | 5%              |

<sup>\*</sup>Includes evaporation loss

| Name        | Zinc Plate-Bonderize        |
|-------------|-----------------------------|
| Descripti   | ion (List steps in process) |
| 1           | Electroclean                |
| 2           | Rinse                       |
| 3           | Acid                        |
| 4           | Rinse                       |
| 5           |                             |
| 6           | Zinc Plate                  |
| <b>7.</b> . | Rinse                       |
| 8           | Predip                      |
| 9           | Bonderize                   |
| 10          | Rinse (Hot)                 |

11. Rinse Chromic
Process production rate (average weekly production by unit: i.e. pounds per week)

|   |  | Quantity<br>ed per week) | Concentration             | By percentage: | Disposal<br>3 columns shou | uld total 100% |
|---|--|--------------------------|---------------------------|----------------|----------------------------|----------------|
|   |  |                          |                           | Hauled away    | Flush                      | Consumed*      |
|   | Clepo 43R  | 9 <b>l</b> b             | 10 oz/g                   | 0              | 10%                        | 90%            |
|   | Rinses 2,4,7,10,11                                 | 68 <b>,75</b> 0 g        |                           | 0              | 100%                       | 0              |
| • | Mydrochloric Acid                                  | 8 gal                    | 7N                        | o              | 30%                        | 70%            |
| • | Sodium Hydroxide<br>Sodium Cyanide                 | 3 lb<br>10 lb            | 2 oz/g<br>7 oz/g          | О              | 10%                        | 90%            |
| • | Zinc Cyanide<br>Sodium Cyanide<br>Sodium Hydroxide | 2 lb<br>5 lb             | l oz/g<br>2 oz/g<br>10%/g | 0              | 10%                        | 90%            |
|   | Dibasic Phosphate                                  | 28 lb                    | l oz/g                    | o              | 90%                        | 10%            |
| , | Bonderite 97                                       | 40 lb                    | 0.56 lb/g                 | o              | 10%                        | 90%            |

<sup>\*</sup>Includes evaporation loss

| Name        | Nickel Plating Steel       |
|-------------|----------------------------|
|             |                            |
| Descripti   | on (List steps in process) |
|             | 77 Luca 1 - 20             |
| 1           | Electroclean               |
| 2.          | Rinse                      |
| <del></del> |                            |
| 3           | Λcid                       |
| _           | Yed or an                  |
| 4           | Rinse                      |
| 5           | Electrocyanide             |
| 6           | Rinse                      |
|             |                            |
| 7           | Dilute Acid                |
| 8           | Nickel Plate               |
|             | pines Cald                 |
| 9           | Rinse Cold                 |
| 10          | Rinse Hot                  |
| 11.         | Dry                        |

Process production rate (average weekly production by unit: i.e. pounds per week)

| Chemicals used (by steps above)   | Quantity<br>(used per week) | Concentration  | By percentage: | Disposal<br>3 columns shou | ald total 100% |
|---|-----------------------------|--|----------------|----------------------------|----------------|
|   |                             |  | Hauled away    | Flush                      | Consumed       |
| Clepo 43R   | 9 lb                        | 10 oz/g  | 0              | 10%                        | 90%            |
| Rinses 2,4,6,9  | 55,000 gal.                 | 600 dib  | О              | 100%                       | 0              |
| Hydrochloric Aci  | d 8 gal                     | 7N   | o              | 30%                        | 70%            |
| Sodium Hydroxide<br>Sodium Cyanide  | 3 lb<br>10 lb               | 2 oz/g<br>7 oz/g   | 0              | 10%                        | 90%            |
| Dilute Acid   | 1.5 gal                     | 10%  | o              | 10%                        | 90%            |
| Nickel Salt<br>Nickel Chloride<br>Boric Acid<br>Brightener BN<br>Brightener BQ<br>Brightener AS | 12 lb<br>3 lb<br>1 lb       | 40 oz/g<br>12 oz/g<br>6.5 oz<br>14 m1/g<br>27 m1/g<br>9 m1/g | O              | 10%                        | 90%            |

<sup>\*</sup>Includes evaporation loss

| Name . | Tin Plating Steel             |             |
|--------|-------------------------------|-------------|
| Descri | ption (List steps in process) |             |
| 1      | Electroclean                  |             |
| 2      | Rinse                         |             |
| 3.     | Acid                          | <del></del> |
| 4.     | Rinse                         | _           |
| 5.     | Electrocyanide                |             |
| 6.     | Rinse                         | <del></del> |
| 7.     | Tin Plate                     |             |
| 8.     | Rinse                         |             |
| 9.     | Dry                           | <del></del> |
| 10.    |                               |             |

Process production rate (average weekly production by unit: i.e. pounds per week)

|    | Chemicals used (by steps above) (c                    | Quantity<br>used per week)          | Concentration               | By percentage: | Disposal 3 columns shou | uld total 100% |
|----|---|-------------------------------------|-----------------------------|----------------|-------------------------|----------------|
|    |   |                                     | '                           | Hauled away    | Flush                   | Consumed *     |
| l. | Clepo 43R   | 9 lb                                | 10 <b>oz/</b> g             | 0              | 10%                     | 90%            |
| 2. | Rinses 2,4,6,8  | 55,000 g/wlt                        | und this                    | o              | 100%                    |                |
| 3. | Hydrochloric Acid                                     | 8 gal                               | 7 N                         | 0              | 30%                     | 70%            |
| 5. | Sodium Hydroxide<br>Sodium Cyanide                    | 3 lb<br>10 lb                       | 2 oz/g<br>7 oz/g            | 0              | 10%                     | 90%            |
| 7. | Sodium Stamnate<br>Sodium Hydroxide<br>Sodium Acetate | 3 <sup>1</sup> : 15<br>4 oz<br>8 oz | 14 oz/g<br>2 oz/g<br>3 oz/g | 0              | 10%                     | 90%            |

845990143

<sup>\*</sup>Includes evaporation loss

| Name  | Copper Plating Steel      |  |  |  |  |
|---|---------------------------|--|--|--|--|
|   |                           |  |  |  |  |
| Description   | n (List steps in process) |  |  |  |  |
| 1   | Electroclean              |  |  |  |  |
| 2   | Rinse                     |  |  |  |  |
| 3   | Acid                      |  |  |  |  |
| 4   | Rinse                     |  |  |  |  |
| 5   | Electrocyanide            |  |  |  |  |
| 6   | Rinse                     |  |  |  |  |
| 7   | Copper Plate              |  |  |  |  |
| 8   | Rinse Cold                |  |  |  |  |
| 9   | Ebanol                    |  |  |  |  |
| 10  | Rinse Cold                |  |  |  |  |
| 1.1.  |                           |  |  |  |  |
| Process production rate (average weekly production by unit: i.e. pounds per week) |                           |  |  |  |  |

| Chemicals used (by steps above)                 | Quantity (used per week) | Concentration                    | Disposal By percentage: 3 columns should total 100% |       |           |
|---|--------------------------|----------------------------------|---|-------|-----------|
|   | ·                        |                                  | Hauled away   | Flush | Consumed* |
| Clepo 43R                                       | 9 lb.                    | 10 <b>oz/</b> g                  | 0   | 10%   | 90%       |
| Rinse 2,4,7,9                                   | 55,000 gal.              | dents date                       | 0   | 100%  |           |
| Hydrochloric<br>Acid                            | 8 gal.                   | 7හ                               | O   | 30%   | 70%       |
| Sodium Cyanid<br>Sodium Hydrox                  |                          | 7 02/g<br>2 02/g                 | 0   | 10%   | 90%       |
| Sodium Cyanid<br>Sodium Carbon<br>Rochelle Salt | ate                      | 0.7 oz/g<br>5.0 oz/g<br>5.0 oz/g | 0   | 10%   | 90%       |
| Ebanol "C"                                      | <b>7</b> 5 lb            | 1.3 lb/g                         | 0   | 10%   | 90%       |

845990144

<sup>\*</sup>Includes evaporation loss

#### **Manufacturing Process**

| Name      | Bright Alloy Plating Steel   |
|-----------|--|
| Descript  | ion (List steps in process)  |
| 1         | Electro Clean  |
| 2         | Rinse  |
| 3         | Agid   |
| 4         | Rinse  |
| 5         | Electrocyanide   |
| 6         | Copper Plate   |
| 7         | Rinse  |
| 8         | Bright Alloy Plate   |
| 9         | Rinse  |
|           | Rinse  |
|           | Dry  |
| ess produ | ction rate (average weekly production by unit: i.e. pounds per wed |

|   | Quantity<br>ed per week) | Concentration                                    | By percentage: | Disposal 3 columns show | uld total 100% |
|---|--------------------------|--|----------------|-------------------------|----------------|
| ···   |                          |  | Hauled away    | Flush                   | Consumed*      |
| Clepo 43D   | 9 11.                    | 10 oz/gal.                                       | 0              | 10%                     | 90%            |
| Rinse 2,4,7,9 55  | 5,000 ga.<br>om voek     |  | O              | 1000                    |                |
| Agid  | 8 gal.                   | <b>7</b> M                                       | 0              | 30%                     | 70%            |
| Sodium Hydroxide<br>Sodium Cymnide<br>Sodium Cyanide                  | 10 Lb.                   | 2 oz/gal.<br>7 oz/gal.<br>0.7 oz/gal             | 0              | 10%                     | 90%            |
| Sodium Carbonate<br>Rochelle Bolt<br>Sodium Cyanide<br>Copper Cyanide | 1 11.                    | 5.0/gal.<br>5.0/gal.<br>2.50/gal.<br>0.35/gal.   | 0              | 10%                     | 90%            |
| Zinc Oxide<br>Sodium Stannate<br>Soda Ash<br>Sodium Hydroxide         | I lb.                    | 0.20/gal.<br>0.22/gal.<br>4.00/gal.<br>0.42/gal. | 0              | 10%                     | 90%            |

<sup>\*</sup>Includes evaporation loss

#### Manufacturing Process (Example)

Name Chemical cleaning - aluminum

Description (Steps in process)

- 1. Degrease
- 2. Alkaline clean
- 3. Rinse
- 4. Deoxidize
- 5. Alodine
- 6. Rinse
- 7. Hot deionized rinse

Process production rate (average weekly production)

5000 lbs. per week.

| Chemicals used (by steps above)     | Quantity               | Concentration         | By percentage: | Disposal<br>3 columns m | ust total 100% |
|-------------------------------------|------------------------|-----------------------|----------------|-------------------------|----------------|
|                                     |                        |                       | Hauled away    | Flush                   | Consumed*      |
| 1. Trichloroethane                  | 400 gal per wk.        | 100%                  | 5%             | 0%                      | 95%            |
| Altrax 1097 (al-<br>kaline cleaner) | 200 lbs.               | 8 oz. per gal.        | 98%            | 2%                      | 0%             |
| 3, 6, 7 Rinse                       | 50000 gal.<br>per week |                       | 0%             | 95%                     | 5%             |
| 4. Deoxidizer (proprietary)         | 200 lbs.               | 16 oz. per gal.       | 99%            | 1%                      | 0%             |
| 5. Alodine 1200 (proprietary)       | 100 lbs.               | 1-1/2 oz. per<br>gal. | 95%            | 1%                      | 4%             |

<sup>\*</sup>Includes evaporation loss

Type of waste treatment at process site

Bisulfite and caustic soda added to rinse waters to convert hexavalent chrome to trivalent chrome and control pH

Monitoring and chemical analyses

pH recording meter

Periodic chemical analyses of grab samples

| II. AIR SURVEY  | State, local or region                     | ution control code (Federal,  |
|---|--|---|
| A. Number of Fuel Burning Units at plant. The total number of units in which fuel combustion for indirect heating occurs, either for space heat or industrial use | SO <sub>2</sub> by wt.                     | ppm 0.3% max.   |
| B. Annual fuel usage. The total quantities of all fuels   | NO <sub>x</sub>                            | ppm   |
| should be listed. If different grades of coal or fuel oil were used, they should be listed separately.  | СО   | ppm   |
|   | Hydrocarbons                               | ppm   |
| Fuel Type Quantity (Units) Sulfur Content (%)   | Particulates                               | grains/SCF  |
| 1. Oil 380,000 Gals. 0.3 Hax.   | Odors                                      | ppm, micrograms/M <sup>3</sup> or   |
| 2   |  | scentometer No.   |
| 3   |  |   |
| 4   | E. Name of air pollution<br>State Controll | n control official in your<br>.ed - Newark Field Office                     |
| 5   |  | Air Pollution Control   |
| V   |  | Leonard, Supervisor Maymond Blvd., Newark, 18                               |
| C. Air Pollution Controls. Any controls removing per-   |  | 201-648-2075  |
| ticulate material or SO <sub>2</sub> from the flue gas streams should be specified in this item.  | 2. State N.J.                              | Dept. Envir. Protection   |
| Equipment Berticulate Control Amount of Combustion  | Name Gera                                  | ldine English, Commission   |
| Equipment Particulate Control Amount of Combustion Type Efficiency (%) Capacity Controlled (%)  | Address John<br>Telephone No. 6            | n Fitch Plaza, Trenton, NJ<br>809-292-5383                                  |
| 1 Sone  |  |   |
|   | F. Have you received                       | any complaint(s) from any of  |
| 2   | the public officials?                      | , ,   |
| 3   | Yes  | No X  |
| 4   |  |   |
| *   | C 15                                       | and discount massive of many  |
| 5   | plaint(s). Attach sep                      | e and disposal status of com-<br>parate sheet.                              |
| Comments:   |  |   |
|   | eral public?                               | any complaint(s) from the gen-  |
|   | Yes <u>**</u>                              | No  |
|   | If yes, state nature plaint(s). Attach sep | e and disposal status of com-<br>parate sheet.                              |
|   | If no, do you exp<br>separate sheet.       | ect any in the future? Attach   |
|   | resident nea                               | over the years apartmentarby has complained of bo<br>Routine immediate clea |

| III. SOLID WASTE                                 | SURVEY   | (d) Municipa             | I Disposal (%)  |
|--|--|--------------------------|---|
| comprehens                                       | id waste. The section should present a ive display of the types and quantities         | (e) By-Produ<br>Recovery | uct Use Or<br>/ (%)   |
|  | astes generated by plant operations. eported should reflect average daily op- litions. | (f) Other (S             | pecify)(%)  |
| 0.419  |  | 2. Total On-Site         | Disposal  |
|  | Disposal   | (Tons/Day)               |   |
| Туре   | Quantity On-Site Off-Site (Tons/Day) (%) (%)   | • • •                    | ion*(%)   |
| <del></del>                                      |  | (b) Landfill.            | (%)   |
| <ol> <li>Rock, sand,<br/>gravel, etc.</li> </ol> |  | (c) Other (S             | pecify) (%)   |
| 2. Ash   |  | Comments:                |   |
| 3. Collected Fly A                               | Ash  |                          |   |
| 4. Sludge  |  |                          |   |
| 5. Metal Scrap,                                  |  |                          |   |
| Containers                                       |  | *- • • • • •             |   |
| 6. Paper Scrap,<br>Containers                    |  |                          | while providing a solution to a solic<br>create an air pollution situation. |
| 00   |  | IV. NOISE SURVEY         |   |
| 7. Plastic                                       |  |                          |   |
| 8. Garbage                                       |  | <del>-</del>             | Measurements. Information con-<br>e sound level measurements is de-         |
| 9. Glass   |  | u., vu.                  |   |
| 10. Other (specify)                              | )  |                          | nmental noise measurements been s _X No                                     |
|  |  |                          | te of last measurement 1978   |
| •  | ethods. All solid wastes produced must be disposed of in some manner. The in-          |                          | ganization or group conducting<br>ots (2) Industrial Hygiene                |
| •  | item is to indicate what disposal meth-  |                          | pe of equipment used  |
|  | niques are currently in use at the plant   | (d) Ma                   | eximum Boundary-Line Sound Lev  |
|  |  |                          | port of tests: Enclosed   |
|  | f-Site Disposal  |                          | Available   |
| (Tons/Da   | ay) Cost (\$/Ton)  |                          | Unavailable   |
| (a) Priva  | ate Incineration(%)  |                          | Excessive Noise. In the absence of mmental criteria relating to noise       |
| (b) Priva  | ate Landfill (%)   | complaints may           | be used in identifying and definial problems. Parts (a) and (b) o           |
| (c) Priv   | ate Sanitary   |                          | to employe and community gen  |
|  | Af:11 (0/)   |                          |   |



#### NEWARK RELAY-INSTRUMENT DIVISION

W. T. Buck, Sr Matl Proc Engineer I4 Non Receiving Department

Subject SOLID WASTE SURVEY
1979

| 1.  | Ferric Chloride ETchant | Scientific Chem Processing Newark, N.J.            | l Drum/Yr                        |
|-----|-------------------------|--|----------------------------------|
| 2.  | Freon TMC               | Baron Blakeslee Co<br>Bay Shore L.I., N.Y.         | l Drum/Yr                        |
| 3.  | Lacquer Thinner         | Scientific Chem Processing                         | l Drum/Yr                        |
| 4.  | Trichlor                | Baron Blakeslee Co                                 | 8 Drums/Yr                       |
| 5.  | Paint Solids            | L. Pucillo & Sons Inc.<br>State Hwy 46, Lodi, N.J. | 1 Drum/196/5<br>(SW 216-2/27/80) |
| 6.  | *Cleaner-Benzine        | Bill's Waste Oil Service<br>Lyndhurst, N.J.        | (NJ5WA-6629AA)                   |
| 7.  | **Cleaner-Kerosene      | 11 11 11   |                                  |
| 8.  | Cutting Oil             | 11 11 11   | 200 Gal/Mo                       |
|     |                         | with Cutting Oil with Cutting Oil                  |                                  |
| 9•  | Non Ferrous Scrap       | JEM Metal Co<br>Cleveland, Ohio                    | 20,000 Lbs/Mo                    |
| 10. | Ferrous Scrap           | Rockwell Inc.<br>43 lst St., Passaic, N.J.         | 20,000 Lbs/Mo                    |
| 11. | Paper Scrap             | P. Pepe Sons, Inc.<br>27 Malvern St., Newark, N.J. | 3,500 Lbs/Mo                     |
| 12. | Garbage                 | L. Pucillo & Sons Inc.                             | 40 CU YD/Wk                      |

J. F. Morgan Supervisor Receiving

| Are complaints received from workers regarding noise?  Yes No  | V. RADIOACTIVE MATERIALS   |
|--|--|
| If Yes (a) Describe source(s) of noise referred to in complaints  (b) Has protective or remedial action been taken? Yes No  2. Have persons in the area of this facility complained to plant or local authorities concerning noise from this plant?  Yes NoX  If Yes (a) Describe circumstances, action taken and deposition of this complaint | A. Use of Radioactive Materials:  1. Are radio isotopes at this facility? Yes  |
| Noise Producing Equipment. A general descriptive title should be used.  List below equipment capable of generating high sound levels.  | B. Individual Responsible for Control of the Radio-active Materials:  1. Name:   |
| Type Of Equipment Number Hours Operated/Shift  1. Punch Press  | Organization:      Area Code/Phone/Extension:  |
| 2. Screw Machine   | C. Type and Quantities of Material Utilized:   |
| 3.      4.   | Average quantity of radio isotopes on hand during 1970 (Curies, C)   |
| 5 Comments:  | <ol> <li>Isotopic composition of the above. Chemical<br/>symbol and atomic weight are sufficient; i.e.,<br/> 131, Sr90, U235. Quantities may be expressed<br/>in curies or microcuries, whichever is more convenient.</li> </ol> |
|  | (a) Isotope Quantity (c)   |
|  | (b) Isotope Quantity (c)   |
|  | (c) Isotope Quantity (c)   |
|  | (d) Isotope Quantity (c)   |

| 3. Amount of radioactive material in sealed sources   | (b)  |
|---|--|
| (c). (Radio isotopes in this form   |  |
| are not dangerous from an environmental con-<br>tamination standpoint.)   | (c)  |
| D. Removal or release of radioactive material:  | 3. Conditions of release to the water:                                       |
| 1. Quantity of material leaving plant (1970) (c)  | Specific Type  |
| <ol> <li>Specific isotopes involved. This item should be<br/>filled in as fully as possible including the quan-<br/>tities associated with each type of release.</li> </ol> | Chemical Quantity Activity Of  Radioisotope Species (c) (uc/1) Release*  (a) |
| Incorporated Release To Radioisotope In Product (c) Environment (c)   | (b)  |
|   | (c)  |
| (a)   |  |
| (b)   | 4. Conditions of release in solid waste:                                     |
| (c)   | Specific   |
| (d)   | Chemical Quantity Activity Special Radioisotope Species (c) (uc/lb) Handling |
| (e) ,   | (a)  |
| 3. Amount of Radioactive Material accidently re-  |  |
| leased 1970   | (b)  |
| mented in an attachment.  | (c)  |
| E. Form of Release to Environment:  | Comments:  |
| Amount of radioactive materials given special handling disposal 1970 (c)  |  |
| 2. Conditions of release to the air.  |  |
| Specific Type  Chemical Quantity Activity Of  Radioisotope Species (c) (uc/m <sup>3</sup> ) Release*  |  |
| (a)   | *Continuous Intermittent Accidental  |

TO: Charles A. Berger Manager, Personnel Relations Newark, NJ

cc: Howard Stewart

Supervisor, Personnel Relations

Newark, NJ

#### INDUSTRIAL HYGIENE AUDIT REPORT

OF

NEWARK, NJ

ON

JULY 13, 1981

Conducted and Reported by:

Diane Whittier
Industrial Hygiene Engineer
Corporate Industrial Hygiene
R&D Center - 401-3X9
1310 Beulah Road
Pittsburgh, PA 15235

#### SUMMARY

On July 13, 1981, a Corporate Industrial Hygiene Audit was performed at the Newark, NJ facility by Diane Whittier, an Industrial Hygiene Engineer.

The audit included a review of plant health and safety programs, written procedures, and a walk-through survey of most of the plant. The areas surveyed included Sections: N-1, I-1, R-1, I-2, F-2, C-4 and O-1.

Even though many operations are being moved to the Florida facility, it is still very important to maintain an active industrial hygiene program at the Newark plant. The audit indicated that numerous employes are being exposed to toxic chemicals and unsafe hazards. It is Westinghouse policy to comply with local and federal regulations concerning occupational health and safety [Management Directive (MD-S05), November, 1978]; but the Newark facility is in violation of several federal OSHA standards. The facility is also not following many policies and procedures which have been recommended by  $(\underline{W})$  Corporate Industrial Hygiene. These violations are detailed in the following report. Non-compliance not only endangers the health and safety of the employes who work at the Newark plant, it also opens the door for OSHA citations and fines such as the one given to the  $(\underline{W})$  Lester, PA plant last year. In addition unsafe working conditions can increase workmen's compensation costs and legal suits filed against the Corporation and its management.

#### I. INTRODUCTION

#### A. Purpose

An industrial hygiene audit was performed at the Newark, NJ facility of the Relay Instrument Division on July 13, 1981. The audit was done by Diane Whittier, a Corporate Industrial Hygiene Engineer. Wayne Bickerstaff, Manager of Corporate Industrial Hygiene, had recommended that the audit be performed.

#### B. Description

The Newark facility manufactures parts of relay instruments. The plant, which dates back to 1893, covers a whole city block and is four stories high. The plant population has decreased in recent years to the present number of about 500 total employes. This includes 351 hourly workers on day shift and 20 hourly workers on the afternoon shift. The remainder are salaried employes.

The medical facility at Newark employs one doctor on a part time basis, 2 hours per day, 3 days a week, and one full-time nurse.

During pre-employment physicals, audiometric examinations have been given for the past two years. Otherwise, the pre-employment physical consists of a basic physical exam and a medical history. Only those employes who work in high noise areas receive periodic exams after the initial exam. Recent health complaints include: smell, difficulty breathing, and drowsiness in the plating area; dermatitis on the epoxy workers; and noise.

Newark had no site safety policy committee or safety observer program at the time of the audit. Members of management meet only in the event of a problem. The only existing industrial hygiene program is a partial one on hearing conservation. Ear protection is available if the employes request it, and as mentioned above, audiometric examinations are performed yearly on those who work in recognized high noise areas. There are no programs for labeling, respirators or personnel air monitoring. Ventilation measurements are made on a periodic basis.

The last OSHA visit was in December, 1980. There was a citation involving lack of guarding on belts and electrical connections.

Approximately 60% of the materials used at the Newark facility are covered by the (W) Number System. Material Safety Data Sheets are received and maintained on materials purchased. The purchasing department requests suppliers to label containers of hazardous materials with (W) material numbers, but the plant survey showed that this practice is not always carried out.

Even though the site has the following equipment: a sound level meter, a junior velometer, a noise dosimeter, a Universal Test Kit, a high volume pump and a low volume pump; there has been no personal or area air sampling conducted at the plant since 1978. There is also no initial or periodic training given to employes who handle hazardous material.

#### II. SURVEY - OBSERVATIONS

Since many operations are moving to the Florida plant, this survey covers areas of the plant which are remaining in Newark.

#### A. Section Nl

This area contained an automatic degreaser, punch presses, a bright dip operation and a spray paint booth.

The automatic vapor degreaser was equipped with an efficient slot ventilation system. The tank, which contained trichloroethylene, was not labeled as to its contents or hazards. Since it was automatic, there would be little contact with the tank except during maintenance or repair.

The large punch press (Minster Automatic Press) operated at sound levels of 94-95 dBA measured in the general area. Only a few of the employes wear ear protection, since the hearing program is on a voluntary basis.

The bright dip operation is automatic. The operator loads the pieces to be dipped in an area away from the tanks. The tanks are well ventilated. There is a full faceshield available for use if the operator has to go into the dip area for any reason. Nearby is an eye bath but no emergency shower. The tanks are not labeled as to contents or hazards. The paint operation is sprayed into a waterfall ventilation system. There was one open unlabeled cleaning tank containing a solvent in the area. Otherwise, safety cans are used but they are not labeled. The solvents used in this area include xylene, toluene and alcohol. The black enamel used in the operation is (W) M32213CU. The drums which are ordered from PPG are not labeled with the (W) material number.

#### B. Section I-1

This was the plating department. The materials in use were hydrochloric, nitric and sulfuric acids. Caustic materials were also in use. Three eyewash fountains and showers were in the room. When they were turned on, the water which came out was very dirty and rusty. There were several signs in the area stating: "Goggles must be worn" but no one in the plating area was wearing goggles. The ventilation over the tanks was efficient. The tanks were not

labeled as to content or hazard, but there were a few signs around stating "Caution" or "Danger."

#### C. Section R-1

This room contained a spray painting operation which was performed in a three-sided booth with waterfall ventilation. The materials used were an assortment of paints and solvents. The major solvents were xylene, toluene, lacquer thinner, mineral spirits and acetone.

#### D. Section I-2

This department was a machining area. Cutting oils were in use here, but there were no complaints of dermatitis. Noise did not seem to be a problem in this department.

#### E. Section F-2

An assortment of automatic screw machines and turret lathes were used in this area. The noise levels in the general area were around 92-93 dBA. No engineering controls were evident and ear protection was on a voluntary basis.

#### F. Section C-4

Ten different epoxies are used in the coil winding operations. There have been some cases of dermatitis among these employes. There is also a small amount of hand soldering performed in this area.

#### G. Section 0-1

There is a large degreasing operation in this area. The employes were not aware of what chemical they are working with. There was no labeling of contents or hazards on the tank which contained trichloroethylene.

#### III. RECOMMENDATIONS

#### A. Section N-1.

Since trichloroethylene (TCE) is considered a highly toxic chemical and a carcinogen in mice, its use should be closely monitored. All employes who work with the degreasing operation should be trained as to the hazards of TCE and how to handle it. The tank should be labeled as to its contents and hazards. See (W) Safe Practice Data Sheet T-4. These employes should have personal air samples taken while they are working in the area. The training and the air monitoring should be repeated on an annual basis and the records must be maintained for at least 5 and 20 years, respectively. All persons required to handle TCE must be provided with gloves which are impervious to TCE. Refer to OSHA Standard CFR 1910.94(d)(9) regarding training and personal protective clothing. (W) Safe Practice Data Sheet T-4 can be used for training purposes. The air samples taken on individuals working with TCE (or any other toxic material) document the extent of their exposures or non-exposure as is usually the case.

All employes working in punch press areas of sound levels greater than 85 dBA should be monitored with personal noise dosimeters on an annual basis and the records must be maintained. In addition, all employes who are exposed to sound levels greater than 90 dBA for an 8-hour shift must have annual audiometric examinations in order to document any hearing loss while employed at Westinghouse. The employes who are exposed to levels over 90 dBA must wear hearing protection until engineering or administrative controls can bring the sound levels down to acceptable levels. Note that personal ear protection is to be used only as a temporary measure. Refer to OSHA Standard CFR 1910.96 and also to the amendment of the noise standard which should be out by September 1, 1981.

The tanks in the bright dip operation should be labeled as to contents and hazards. Employes must receive pre-employment and annual training regarding the use and handling of caustic materials. An emergency shower must be installed next to the eye wash fountain [CFR 1910.151(c)]. Both water supplies must be checked monthly or quarterly to insure that they contain clean water and are working properly. Reference: OSHA Standard CFR 1910:94(d)(9).

In this area, or any other area where there is a possibility of accidental release of hazardous concentrations of air contaminants, self-contained breathing apparatus should be stored for emergency use. Employes must be trained in the use of these respirators [CFR 1910:94(d)(9)(vi)] as per the plant's written Respirator Program [CFR 1910.134].

The painters in Section N-1 should be monitored with personal air samples for exposure to the various solvents (e.g. toluene, xylene) which they use. These air monitoring records must be maintained for a minimum of 20 years. The painters must receive pre-employment and annual training regarding the hazards of the materials they are working with. Refer to (W) Safe Practice Data Sheets (SPDS) P-1, T-2, X-1 and other SPDS on solvents for hazard evaluation and safe handling methods.

#### B. Section I-1

Employes working in this plating area must receive the same training as those in the bright dip area. They must all be issued the proper protective clothing and the wearing of tight fitting eye goggles or faceshields must be enforced. Emergency water supplies must be checked regularly to ensure that they contain clean water [CFR 1910:94(d)(9)]. All tanks should be labeled as to contents and hazards, and air samples should be taken on the employes who work in this section.

#### C. Section R-1

Personal air samples should be obtained from painters in order to document any exposure to solvents or lead if any lead based paints are used. Flammable materials must <u>always</u> be contained in safety cans and all material containers must be labeled.

#### D. Section I-2

If any machinists have dermatitis problems, recommend the use of a barrier cream and good personal hygiene, i.e. frequent hand washing.

#### E. Section F-2

The employes in this area must be monitored with noise dosimeters annually in order to estimate and record their noise exposure. Also, they should all have annual audiometric exams. In the meantime the employes must wear ear protection until the sound levels are brought down by engineering controls.

#### F. Section C-4

Barrier creams and/or protective gloves can be worn by epoxy workers in this area in order to prevent dermatitis. Employes who perform hand soldering must not eat, drink or smoke in this area because of possible exposure to lead by ingestion. Employes must be notified as to the hazards of lead intoxication (See SPDS L-2). It is unlikely that any employe will be exposed to lead by inhalation since soldering temperatures are so low that lead oxides are not formed. However, the lead standard (29 CFR 1910.1025) requires that personal air samples be taken on all lead operations. The results of these samples must be retained in the records.

#### G. Section 0-1

As in Section N-1, training, labeling and monitoring must be done in this area where trichloroethylene is used.

#### IV. CONCLUSIONS

It is a policy of Westinghouse to "provide safe and healthful working conditions", "to maintain all facilities and equipment in accordance with recognized and accepted standards"; and "to reduce the use of....procedures ....that expose employes to substances that are potentially toxic, flammable or radioactive." Each member of management is responsible for complying with these policies. [Management Directive (MD-SO5), November 1978] To this end the Newark facility must establish an industrial hygiene program which will address this policy and also assure that OSHA standards are being met.

First, the person responsible for industrial hygiene must have a chemical inventory of all substances used in the Newark facility and maintain a file of the Material Safety Data Sheets obtained from suppliers. The next step is to determine which employes use which toxic substances. This task will be simplified if suppliers cooperate with the Purchasing Department's request to put the (W) M number on all containers of materials delivered to the plant. A personal air sampling and physical agent monitoring program must then be established in order to determine extent of exposure, if any, to each job classification in each area. The program must be an ongoing monitoring program, repeating air samples on an annual basis and maintaining these records.

Medical surveillance must then be based on exposure records. For example, those employes exposed to lead should have blood lead levels checked on a periodic basis. The medical records must be maintained indefinitely.

Another part of the plant's industrial hygiene program should be an ongoing training program for first line supervisors so they in turn can inform employes of the hazards associated with their particular job.

A site safety observer program should be set up. This program will assist the industrial hygiene/safety (IH&S) person to keep abreast of problems in the plant. For more information, contact the Corporate Safety Department. A site safety policy committee consisting of the plant manager, personnel relations manager, industrial hygiene and safety person, operations managers, maintenance manager, materials and process manager(s), etc. must be established. This committee should meet monthly for the purpose of setting plant IH&S policy, establishing guidelines and discussing IH&S problems.

Plant programs which should be written, set up and enforced include: an eye protection program, a respiratory program, a hearing protection program, a safety shoe program, and so on.

It is recommended that the person(s) responsible for the industrial hygiene program at the Newark facility attend the Corporate Industrial Hygiene and Safety courses which are offered every year through the (W) Education Center. These courses will help the industrial hygiene and safety person to carry out his/her responsibility as defined by the Corporation and as defined by Federal law. The first course, #516, systematically details how to establish an effective Industrial Hygiene and Safety Program and Courses #517 and #518 train the Industrial Hygiene and Safety person how to recognize, evaluate and control the toxic or hazardous operations.

APPROVED BY:

C. W. Bickerstaff, Manager Corporate Industrial Hygiene 9/11/81

#### **ENVIRONMENTAL PROTECTION AGENCY**

# GENERATOR ANNUAL HAZARDOUS WASTE REPORT

This report is for the calendar year ending December 31, 1981.

| GENERAL INSTRUCTIONS: If you received a preprinted label attached to the mailing envelope in which this form was enclosed, affix it in the space provided. If any of the information on the label is incorrect, draw a line through it and provide the correct information in the appropriate section below. If the information is correct and complete, leave Sections I, II, and III below blank. If you did not receive a preprinted label, complete all sections. REFER TO THE SPECIFIC INSTRUCTIONS CONTAINED IN THIS BOOKLET BEFORE COMPLETING THIS FORM, The information requested in this report is required by law (Section 3002 of the Resource Conservation Recovery Act). | ا<br>ا<br>العال ما<br>العال العال  |
|---|--|
| [F]N J D 0 0 4 3 8 3 4 8 5 7 7  |  |
| II. NAME OF INSTALLATION  LWIEISITI II NIGIHIOI UI SI EL LEILI EL CITTRI I I C. 10 IR IP I OTRI ALTI I OTNI L. I.   | A STATE OF THE   |
| III. INSTALLATION MAILING ADDRESS   | *  |
| [3] 9 5 0 R A N G E S T R E E T 45  Street or P.O. Box [4] N E W A R K   N G G G G G G G G G G G G G G G G G G  | 新子 な然のながら  |
| IV. LOCATION OF INSTALLATION (if different than section III above)  | - i  |
| 5   9   5   0   R   A   N   G   E     S   T   R   E   E   T   | では、  |
| V. INSTALLATION CONTACT   | 4  |
| 2 M I C H E L I N I C J J . 45  Name (last and first)  2 0 1 - 6 4 3 - 18 7 7 46  Phone No. (area code & no.)   | in the state of th |
| VI. CERTIFICATION  I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information. I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of line and imprisonment.   |  |
| Print/Type Name Title Signature of Authorized Representative Date Signed  |  |
| Page 1 of 2   | <u> </u>   |

# Do not make entries in shaded areas a ENVIRONMENTAL PROTECTION AGENCY

# Generator Annual Hazardous Waste Report (cont.)

| This report is for the calendar y  | rear ending December 31, 1981.   |
|--|--|
| Date rec'd: 12-9-82 Rec'd by: C.J. MICHELIN  VII. GENERATOR'S EPA I.D. NO.  IGIN J D 0 0 4 38 3 4 8 5 11 | VIII. FACILITY NAME (specify facility to which all wastes on this page were shipped)  BARON BLAKESLEE  |
|  | X. FACILITY ADDRESS 49 CENTRAL AVE.  |
| IX. FACILITY'S EPA I.D. NO.    F   N   J   D   0   4   8   8   1   0   2   7   9                         | SO. KEARNY N.J.  |
|  | Andrew Colonia and the Colonia |

18 XI. TRANSPORTATION SERVICES USED (this the name and 19% identification numbers of <u>all</u> transporters whose services were used during 1981. This section to be completed only once. Do not repeat on supplemental sheets.)

NJD 048810279

| XII. WAS | TE IDENTIFICATION  A. Description of Waste      | B. DOT<br>Hazard | C. EPA Hazardous<br>Waste No.<br>(see instructions) | D. Amount of Waste  | E. Unit of<br>Measure | Ġ.                                       |
|----------|---|------------------|---|---------------------|-----------------------|--|
| 1        | SPENT HALOGENATED SOLVENT<br>USED IN DEGREASING | 113              | F101011 1 42<br>35 38 39 42<br>143 46 47 50         | 51                  | P 60                  | _<br>                                    |
| M        | TRICHLOROETHYLENE                               |                  |   |                     |                       |  |
| 2        | SPENT HALOGENATED SOLVENT                       | 1 3              | F <sub>1</sub> O <sub>1</sub> O <sub>1</sub> 1      | , , , , , 1, 6,1 ,7 | Р                     | 4  |
| Į.       | USED IN DEGREASING -                            |                  |   |                     |                       | • :<br>•                                 |
| Ø.       | METHYLENE CHLORIDE                              |                  |   |                     |                       | <b>.</b> , 6                             |
| 6        |   |                  |   |                     |                       |  |
| 7        |   |                  |   |                     |                       | -<br>144                                 |
| 8        |   |                  |   |                     |                       | e ne                                     |
| 9        |   |                  |   |                     |                       | e e                                      |
| 10       |   |                  |   |                     |                       |  |
| 11       |   |                  |   |                     |                       | -: · · · · · · · · · · · · · · · · · · · |
| 12       |   |                  |   | 1 1 1 1 1 1 1 1     |                       | •  |

XIII. COMMENTS (enter information by section number—see instructions)

# Division of Waste Management Bureau of Hazardous Waste Classification and Manifest

## PRIVILEGED

| NJD                               | 004383485  | из                                |                      |        |
|-----------------------------------|--|-----------------------------------|----------------------|--------|
| EPA ID                            | number   | (1f                               | one was issued)      |        |
| •                                 |  | Electric Corporation              | 201 643-1877         | ,      |
| Compan                            | y Name   |                                   | Phone Nu             |        |
|                                   | 95 Orange St   | reet                              |                      | •      |
| Street                            | Address  |                                   |                      |        |
|                                   | Newark   | Essex                             | New Jersey           | 07101  |
| City                              |  | County                            | State                | Zip    |
|                                   |  |                                   |                      |        |
| City                              |  | County                            | State                | Zip    |
| -                                 | N 409 441 201  | County                            |                      | ·      |
| •                                 | N 40° 44' 30"  | County                            | N 74° 1              | 1' 30" |
| •                                 | •  | County                            |                      | 1' 30" |
| atitu                             | •  | County                            | N 74° 1              | 1' 30" |
| atitu                             | de   | County                            | N 74° 1              | 1' 30" |
| atitu<br>                         | de<br>20] 643~6204<br>ncy Phone                          |                                   | W 74° l<br>Longitude | 1' 30" |
| atitu                             | de<br>20] 643~6204<br>ncy Phone                          |                                   | W 74° l<br>Longitude | 1' 30" |
| atitu                             | de<br>20] 643~6204<br>ncy Phone                          | Transporter se check that which a | W 74° l<br>Longitude | 1' 30" |
| atitu<br>merge<br>enera<br>compan | de<br>20] 643-6204<br>ncy Phone<br>tor X<br>y Type (Plea |                                   | W 74° l<br>Longitude | 1' 30" |

832/8016249

845990166

# GENERATOR'S ANNUAL REPORT FOR YEAR OF 1983

| 1.        | GENERATOR'S   | NAME Westinghouse Electric Corporation  | 2.   | EPA ID NO        | NJD004383485   |          |  |  |  |
|-----------|---|---|--|------------------|----------------|----------|--|--|--|
| 3.        | ADDRESS 95  | Orange Street, Newark, NJ 07101   | <del>/////////////////////////////////////</del> | TELEPHON         | E 201 643-6204 |          |  |  |  |
| 4.        | TRANSPORTER   | S NAME CECOS International, Inc.  | 5.   | EPA ID NO        | NYD080336241   | •        |  |  |  |
| 5.        | 5. ADDRESS 1 Edgewater Plaza, Staten Island, NY 10305                 |   |  |                  |                |          |  |  |  |
| 7.        | FACILITY'S N  | AME CECOS International, Inc.   | 8.   | EPA ID N         | 0 NYD080336241 |          |  |  |  |
| 9.        | 9. ADDRESS 56th Street & Niagara Falls Blvd., Niagara Falls, NY 14303 |   |  |                  |                |          |  |  |  |
|           | ***************************************                               |   |  |                  |                |          |  |  |  |
|           | MANIFEST NO   | DESCRIPTION OF WASTE DOT HAZ.CLASS QUANT  |  | UNITS            | EPA WASTE TYPE | REJECTED |  |  |  |
|           |   |   | LITY   | UNITS            | EPA WASTE TYPE | REJECTED |  |  |  |
| 10.       | MANIFEST NO   | DESCRIPTION OF WASTE DOT HAZ.CLASS QUANT  | <u> </u>   | UNITS 1          |                | REJECTED |  |  |  |
| 10.<br>1. | MANIFEST NO<br>NY2964627  | DESCRIPTION OF WASTE DOT HAZ.CLASS QUANT Waste Corrosive Solids N.O.S. Corrosive Material 5 | 111Y<br>55<br>80                                 | <u>units</u> 1 1 | D002           | REJECTED |  |  |  |

832/8016250

PLACE AN """ UNDER THE REJECTED COLUMN FOR THOSE MANIFESTS REJECTED BY FACILITY.

# PRIVILEGE

# GENERATUR'S ANNUAL REFURI

| <b>1</b> .  | GENERATOR'                                     | S NAME Westinghouse Electri         | c Corporation          | 2. 1    | EPA ID N                              | D. NJD004383485 , |          |
|-------------|--|-------------------------------------|------------------------|---------|---------------------------------------|-------------------|----------|
| <b>S</b> 3. | ADDRESS 95                                     | Orange Street, Newark, NJ 071       | TELEPHONE 201 643-6204 |         |                                       |                   |          |
| 4.          | . TRANSPORTER'S NAME CECOS International, Inc. |                                     |                        |         | PA ID N                               | O NYDO80336241    |          |
| 5.          | ADDRESS 1                                      | Edgewater Plaza, Staten Islan       | d, NY 10305            |         | · · · · · · · · · · · · · · · · · · · |                   |          |
| 7.          | FACILITY'S                                     | NAME CECOS International, I         | nc.                    | 8.      | EPA ID                                | NO_NYD080336241   |          |
| 9.          | ADDRESS 56                                     | th Street & Niagara Falls Blvd      | Niagara Falls. N       | 04303   |                                       |                   |          |
| 10.         | MANIFEST NO                                    | DESCRIPTION OF WASTE                | DOT HAZ.CLASS          | UANTITY | UNITS                                 | EPA WASTE TYPE    | REJECTED |
| 1.          | NJ0160526                                      | Waste Oxidizer Poison Solids N.O.S. | Oxidizer               | 165     | 1                                     | D001              |          |
| 2.          | 11   | Waste Corrosive Solid N.O.S.        | Corrosive Materia      | 500     | 1                                     | D002              |          |
| 3.          | "  | Waste Cyanide Mixture Dry           | Poison B               | 300     | 3                                     | P030              | -        |
| 4.          | ti.  | Waste Flammable Solid N.O.S.        | Flammable Solid        | 110     | 1                                     | D001              |          |
|             |  |                                     | ·                      |         | 633 <u>/</u> 80                       | 16251             |          |

<sup>\* -</sup> PLACE AN \*\* UNDER THE REJECTED COLUMN FOR THOSE MANIFESTS REJECTED BY FACILITY.

### GENERATOR'S ANNUAL REPORT FOR YEAR OF 1983

| 1.  | GENERATOR'S NAME Westinghouse Electri  | ic Corporation     | 2.                     | EPA ID N | 10. NJD004383485 . |             |  |
|-----|--|--------------------|------------------------|----------|--------------------|-------------|--|
|     | ADDRESS 95 Orange Street, Newark, NJ C |                    | TELEPHONE 201 643-6204 |          |                    |             |  |
| 4.  | TRANSPORTER'S NAME Bill's Waste Oil Se |                    |                        |          | 10 NJD350011227    |             |  |
|     | ADDRESS 22 Idaho Street, Passaic, NJ C |                    |                        |          |                    |             |  |
| 7.  | FACILITY'S NAME B&L Oil Corporation    |                    | 8.                     | EPA ID   | NO NJD064981988    |             |  |
| 9.  | ADDRESS 472 Frelinghuysen Avenue, News | rk, NJ 07114       | ····                   |          |                    | <del></del> |  |
| 10. | MANIFEST NO DESCRIPTION OF WASTE       | DOT HAZ.CLASS      | DUANTITY               | UNITS    | EPA WASTE TYPE     | REJECTED    |  |
| 1.  | NJ0033830 Waste 011 N.O.S.             | Combustible Liquid | 300                    | 1        | X721               |             |  |
| 2.  | NJ0033832 Waste 011 N.O.S.             | Combustible Liquid | 400                    | 1        | X721               |             |  |
| 3.  | NJ0168847 Waste Oil N.O.S.             | Combustible Liquid | 300                    | 1        | X721               |             |  |

832/8016252

# PRIVILEGED

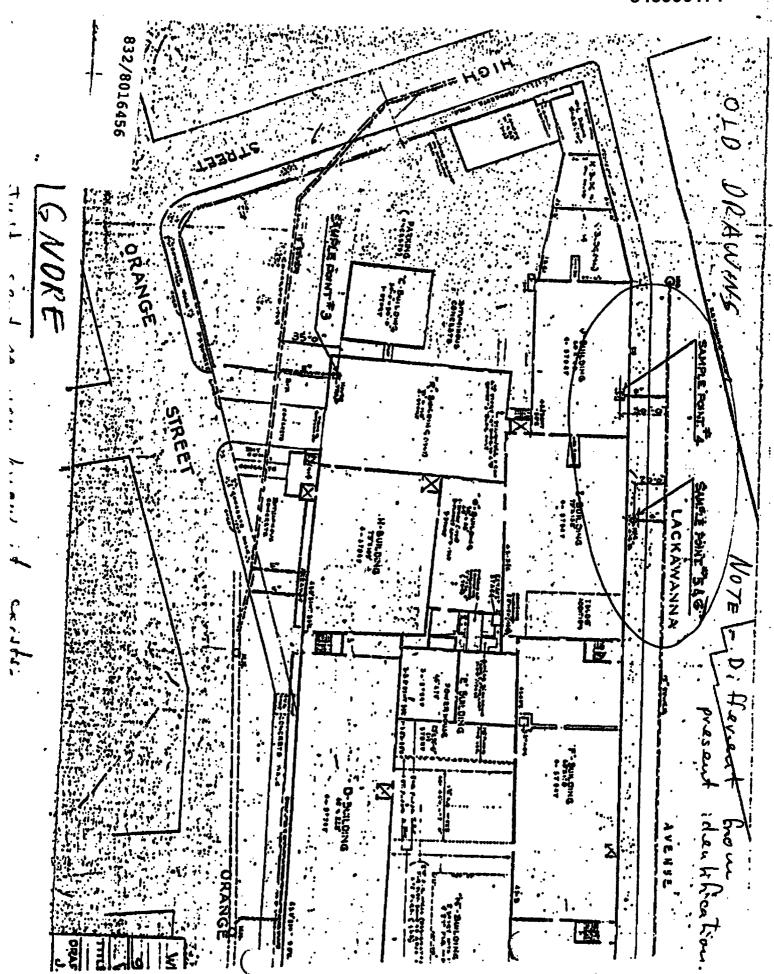
GENERATOR'S ANNUAL REPORT
FOR YEAR OF 1983

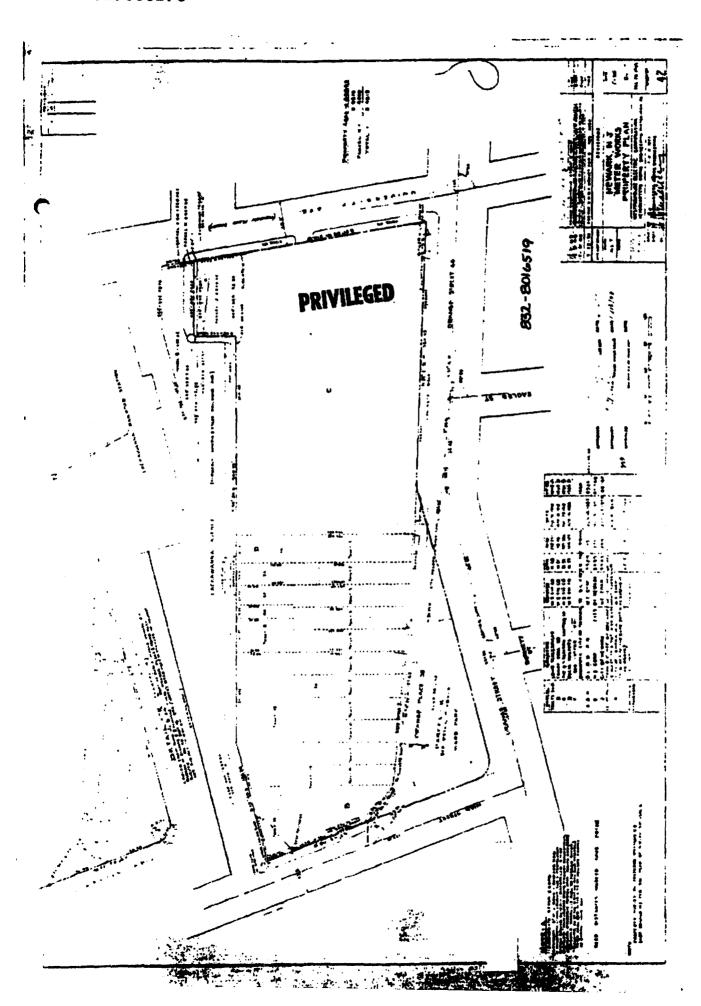
|                                     | _                    |   |                        | •   |                                    |                                    |                                   |
|-------------------------------------|----------------------|---|------------------------|---|------------------------------------|------------------------------------|-----------------------------------|
| _                                   | 10.                  | 9.  | 7.                     | 5   | 4.                                 | ŭ.                                 | •                                 |
| NJ0168846                           | MANIFEST NO          | ADDRESS 49 Central Avenue, South Kearny, NJ 07032 | FACILITY'S NAME        | ADDRESS 49 Cen                            | TRANSPORTER'S NAME Baron Blakeslee | ADDRESS 95 Or                      | GENERATOR'S NAME                  |
| Wast<br>eth                         | S30                  | tral  | <b> </b>               | tral                                      | MAM                                | ange                               | ř                                 |
| Waste Trichlor-<br>ethylene Mixture | CRIPTION             | Avenue,   | Baron                  | Avenue,                                   | E Baron                            | Street,                            | Westingh                          |
| r-<br>ure                           | DESCRIPTION OF WASTE | South Kear  | Baron Blakeslee        | South Kear                                | Blakeslee                          | 95 Orange Street, Newark, NJ 07101 | ouse Electi                       |
| ORM-A                               | DOT HAZ.CLASS        | ny, NJ 07032                                      |                        | 49 Central Avenue, South Kearny, NJ 07032 |                                    | 07101                              | Westinghouse Electric Corporation |
| 1097                                | QUANTITY             |   | œ                      |   | 5. E                               |                                    | 2. [                              |
| <b>-</b>                            | UNITS                |   | EPA ID NO              |   | EPA ID NO_                         | TELEPHONE                          | EPA ID NO.                        |
| F001                                | EPA WASTE TYPE       |   | EPA ID NO NJD048810279 |   | NJD048810279                       | TELEPHONE 201 643-6204             | NJD004383485                      |
|                                     | REJECTED             |   |                        |   |                                    |                                    |                                   |

832/8016253

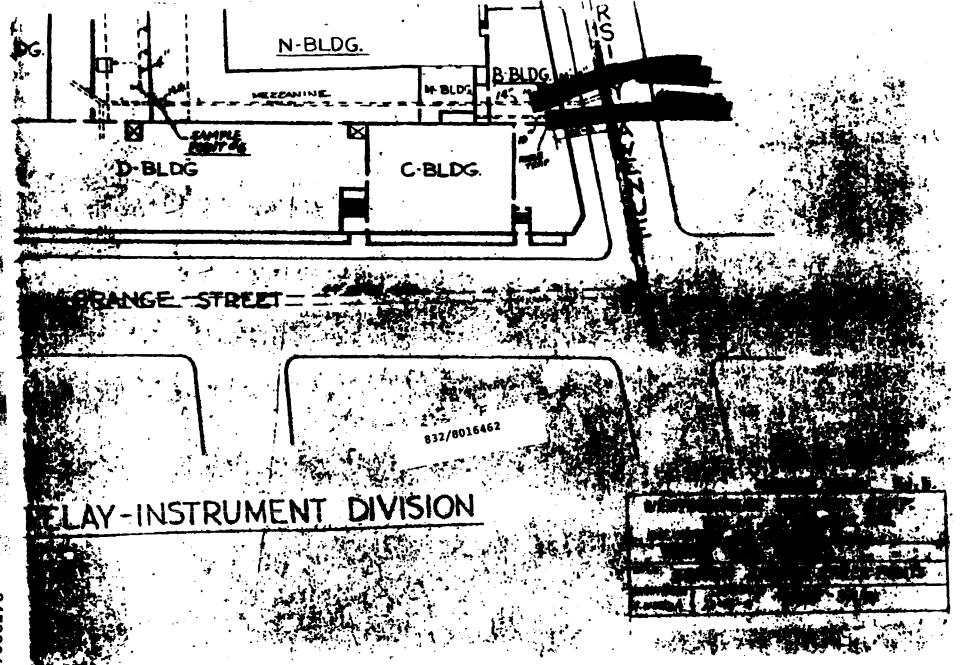
PLACE AN "." UNDER THE REJECTED COLUMN FOR THOSE MANIFESTS REJECTED BY FACILITY.

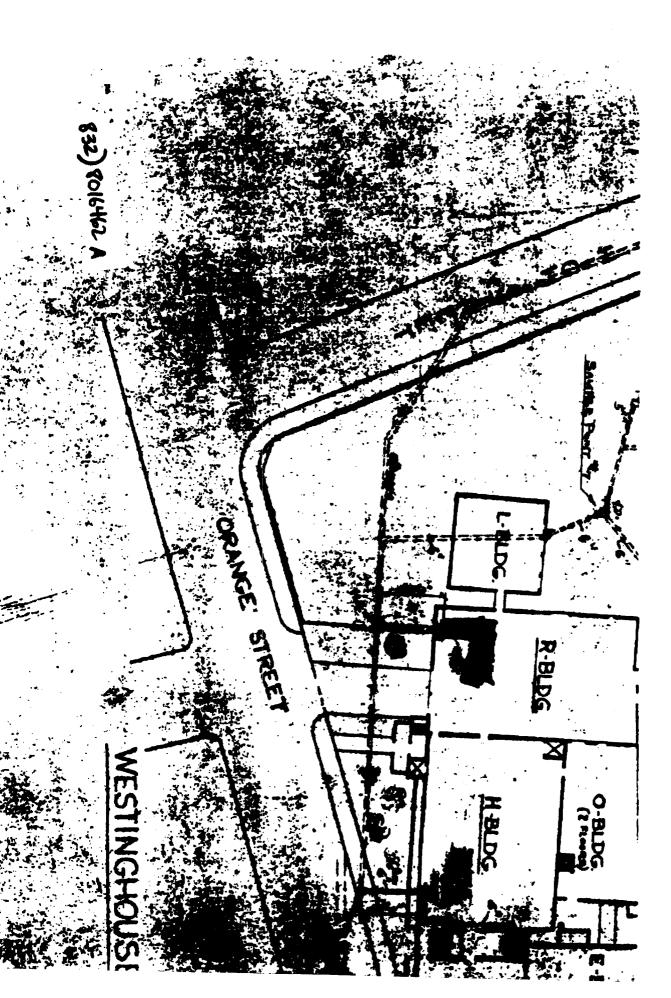
Exhibit A
Sewer & Easement Issues

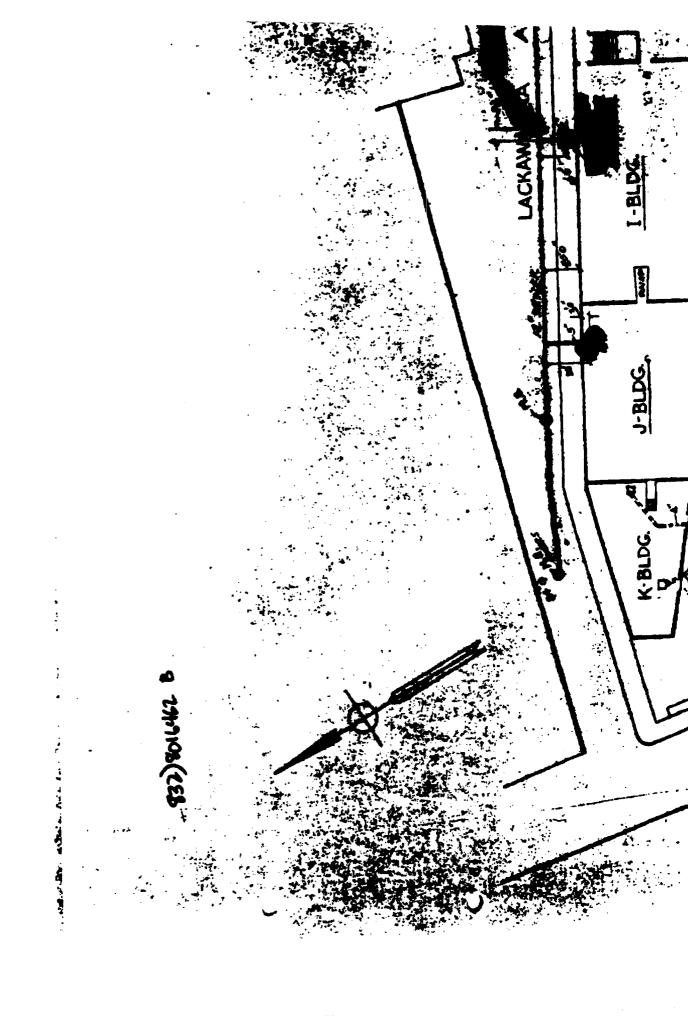




January Committee Committe







845990176

# ARTICLE III. USE OF PUBLIC SEWERS

Sec. 27.16 Discharging sewage, westes, etc., into netwal outlets prohibitedly

It shall be unlawful for any person to discharge into any natural cutter within the limits of the city any sanitary sewage, industrial wastes or other pallated waters, except where suitable treatment has been provided as approved by the engineer of the bureau of sewers of the city.

Sec. 27.17 Discharging storm water, etc., into sanitary sewers prohibited.

No person shell discharge or cause to be discharged any storm water, surface water, ground water, roof runoff, sub-surface drainage, cooking water or unpolluted industrial process waters to any sanitary sever.

Sec. 27.18 Storm and other unpolluted drainage to be discharged through combined or storm sewers.

Storm and all other unpolluted drainage shall be discharged to such severs as are specifically designated as combined severs or storm severs or to a natural outlet as approved by the engineer in charge of the bureau of severs, industrial cooling water or unpolluted process waters may be discharged, upon approved of the engineer in charge of the bureau of severs, to a storm severs, earnbined sever or a natural entity.

Sec. 27.19 Engmeration of particular waters and wastes not to be disdisated into public sowers.

Except as hereinefter provided, no person shall discharge or except to discharged any of the following described voters or wester into any public cover:

(a) Any liquid or vapor having a temperature ligher than 1887 to 18

(b) Any water or wests which may contain more than 125 paper.

[4] Any gasolina, bassina

- (d) Any live steem or boiler blow offs.
- (e) Any ashes, cinders, sand, mud, straw, shavings, metal, offal, dead animals, bulk garbage, refuse, meats, leaves, bones, glass, rags, feathers, tar, plastics, wood, paunch manure or any other solid or viscous substance.
- or having any other corrosive property capable of causing damage or hazard to the sewer appurtenences and personnel of the bureau of sewers or any citizen.
- (g) Any waters or wastes containing a toxic or poisonous substance in sufficient quantity to injure or interfere with any sewage treatment process, constitute a hexard to humans or animals or create any hexard in the receiving waters.
- (h) Any noxious or malodorous gas or substance capable of creating a public nuisance.

#### Sec. 27.20 Greese, oil and sand interceptors-Generally.

Grease, oil and sand interceptors shall be provided when, in the opinion of the ungineer in charge of the bureau of sewers; they are necessary for the proper handling of liquid wastes containing grease in excessive amounts, or any flammable wastes, sand and other harmful ingredients; except that such interceptors shall not be required for private living quarters or dwelling units. All interceptors shall be of a type and capacity approved by the engineer in charge of the bureau of sewers and shall be so located by his direction as to be readily and easily accessible for cleaning and inspection.

Grease and oil interceptors shall be constructed of impervious materials capable of withstanding abrupt and extreme changes in temperature. They shall be of substantial construction, watertight and equipped with easily removable covers which when bolted in place shall be gastight and watertight.

Sec. 27.21 Same—To be installed and maintained by owner.

Where installed, all grease oil and sand interceptors shell be installed and maintained by the owner, at his expense, in continuously efficient operation at all times.

Sec. 27.22 Preliminary treatment facilities-Generally.

The edmission into any public sewer of any waters or wastes having (a) a five day biochemical oxygen demand greater than 350 parts per million by weight, or (b) containing more than 400 parts per million by weight of suspended

solids or (c) containing any quantity of substances having the sheracteristics described in section 27.19 of this Revision shall be subject to the review and approval of the engineer of the bureau of sewers. Where necessary in the opinion of the engineer of the bureau of sewers the owner shall provide, at his expense, such preliminary treatment as may be necessary to (a) reduce the biochemical oxygen demand to 350 parts per million and the suspended solids to 400 parts per million by weight, or (b) reduce objectionable characteristics or constituents to within the maximum limits provided for in section 27.19 of this Revision, or (c) control the quantities and rates of discharge of such waters or wastes. Plans, specifications and any other pertinent information relating to proposed preliminary treatment facilities shall be submitted to the engineer in charge of the bureau of sewers for his inspection and approval, and no construction of such facilities shall be commenced until such approval is obtained in writing.

#### Sec. 27.23 Same—To be maintained by owner at his expense.

Where preliminary treatment facilities are provided for any waters or wastes, they shall be maintained continuously in satisfactory and effective operation, by the owner at his expense.

Sec. 27.24 Control manhole may be required where house sewer carries industrial wastes.

When required by the engineer in charge of the bureau of sewers, the owner of any property served by a house sewer carrying industrial wastes shall install a suitable control manhole in the house sewer to facilitate observation, sampling and measurement of the wastes. Such manhole, when required, shall be accessibly and safely located, and shall be constructed in accordance with plans approved by the engineer. The manhole shall be installed by the owner at his expense and shall be maintained by him so as to be safe and accessible at all times.

#### Sec. 27.25 Measurements, tests and analyses.

All measurements tests and analyses of the characteristics of waters and wastes to which reference is made in sections 27.19 and 27.22 of this Revision shall be determined in accordance with standard methods for the examination of water and sewage, and shall be determined at the control manhole provided for in section 27.24 of this Revision or upon suitable samples taken at such control manhole. In the event that no special manhole has been required, the control manhole shall be considered to be the nearest downstream manhole in the public sewer to the point at which the house sewer is connected.

| Date: | 7/11/72 | <br> |
|-------|---------|------|
|       |         | <br> |

Plant Ref. No. JDEQ 122

#### WASTE EFFLUENT SURVEY

(For Industries Served by the Passaic Valley Sewerage Commissioners)

| Plant Name:          | Westinghouse Ele                        | ctric Corp.,                           | Relay-Instru  | ment Division             |
|----------------------|---|--|---------------|---------------------------|
| Address: 95 Orang    | ge Street, Newark,                      | New Jersey                             | •••••         | Zip. 07101                |
|                      | whom any further in                     | -<br>Fngineering                       |               |                           |
| Phone No.:465        | 5-2432                                  |  | •••••         |                           |
| Number of Employe    | es:1400                                 |  |               |                           |
| Number of Working    | Days Per Week:                          | 5                                      |               |                           |
| Number of Shifts Pe  | er Day: 1300 Peop                       | le 1st Shift,                          | 98-2nd Shift  | t, 2-3rd Shift            |
| Area of Property:    | 3.45                                    | Acres,                                 | or            | Sq. Ft.                   |
|                      | nd 4 digit U.S. Standrical Machinery an |  |               | No.: S.I.C. 36            |
| Finished Product(s)  | . Relays, Instrum                       | ents, Supervis                         | sory Control  |                           |
| Average Production:  | 15,000, 20,0                            | 00 units per m                         | nonth.        |                           |
| Raw Materials Used   | l: Steel, plastic                       | s, copper, coa                         | ating materia | ıls                       |
| Brief Description of | Operations: Parts                       | are fabricate                          | ed in our pre | ess shop or machine shops |
| and assembled i      | nto completed uni                       | ts.                                    |               |                           |
|                      | · · · · · · · · · · · · · · · · · · ·   | <b>,</b>                               |               |                           |
|                      |   | ······································ |               |                           |

Water received in Gallons (Note: multiply cu. ft. x 7.48) Purchased water in 1971 from: City of Newark 1st Quarter 24, 262, 876 2nd Quarter \_\_\_\_\_\_\_26,809,068 4th Quarter 19,197,420 Total Purchased 1971: 93,804,436 Gals. Well Water 30,000,000 1st Quarter ..... 2nd Quarter 30,000,000 3rd Quarter 30,000,000 30,000,000 4th Quarter ..... Total well water received in 1971: 120,000,000 River Water 1st Quarter ..... 2nd Quarter 3rd Quarter ..... 4th Quarter ..... Total river water taken in in 1971: TOTAL OF ALL WATER RECEIVED IN 1971: 213,804,436 Water Use in 1971: Water to Product (include evaporated and lost water): 1,000,000 Water to Sanitary Sewer: 121,404,436 River or Birch: Returned to earth 91,400,000 Water to Storm Sewer TOTAL WATER USE IN 1971: 121,404,436 Name of River, Stream, or Tributary, and location of storm sewer or ditch outlet to river, stream,

None

## ANSWER THE FOLLOWING QUESTIONS ONLY IF THE PLANT WASTE INCLUDES WASTE ATTRIBUTABLE TO INDUSTRIAL OPERATIONS

(Note: Analyses should be based on a 24-hour composite sample)

| Characteristics of Plant Waste discharged to sanitary or combined sewer, after treatment if any. Indicate units of measure where applicable (e.g. Mg/l).  |
|---|
| a) pH: 7.8 b) Turbidity: less than 18 JTU   |
| c) Temperature: 47-60°F d) Radioactive? Yes   |
| e) Solids Concentration:  |
| 1) Total Solids 796 mg/L Volatile 172 mg/L Mineral 624 mg/L   |
| 2) Suspended Solids 20 mg/L Volatile 10.0 mg/L Mineral 10 mg/L  |
| f) Oil and Grease Concentration:  |
| 1) Floatable Oils 4 mg/L  |
| 2) Emulsified Oils 4 mg/L   |
| g) Chlorides 190 mg/L   |
| h) Chemical Oxygen Demand (C.O.D.): 656 mg/L  |
| i) 5-day Bio-chemical Oxygen Demand (B.O.D.): 11.1 mg/L   |
| j) Total organic carbon (T.O.C.): 19.65 mg/L  |
| k) Metallic Ions—Name and concentration (Important—list each metal in waste, e.g., chromiu hex. and triv. Antimony, Lead, Mercury, Copper, Vanadium, Nickel; give concentration at total daily discharge of each metal.)  |
| copper       < 0.1 mg/L   |
| 1) Toxic Material—Name and concentration e.g., cyanide salts, etc.): Bromides < 2.5 mg/L  |
| Cyanides 0.44 mg/L  |
| m) Solvents Name and concentration: None  |
| n) Resins-Name and concentration (Lacquers, Varnishes, Synthetics): None  |
| o) Date and time span of sample 4 P.M. 4/18/72 5 P.M. 4/19/72   |
| Explain hours, method of discharge of waste to Sanitary Sewer and peak rate of flow, e. (continuing for 8 hours per day, 5 days per week at 100 gal./day rate) (batch twice a day for minutes at 100 gal./min.) (Continuous 24 hours steady or with peaks at 2 P.M., peak ra 3 M.G.D.) etc. |
| Large Plant tied in at six locations results are composite of all lines. Most of  |
| flow is 5 days 8 A.M - 12 Midnight. Average flow 25,000 Gal/1 Peaks 9-10 A.M. &   |
| 1 - 3 P.M. 30,000 Gals/hr. Midnight to 8 A.M. 5,000 Gals./Hr.   |

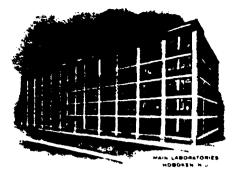
| maicate u                          | nits of measure where appli                           | icable (e.g., Mg/I).  |  |
|------------------------------------|---|---|--|
| a) pH:                             |   | b) Turbidity:   |  |
| c) Temper                          | ature:  | d) Radioactive? You   | es No  |
| e) Solids (                        | Concentration:  |   |  |
| 1) To                              | otal Solids   | Volatile  | Mineral  |
| 2) Su                              | spended Solids  | Volatile  | Mineral  |
| f) Oil and                         | d Grease Concentration:                               | •   |  |
| 1) Flo                             | oatable Oils  |   |  |
| 2) En                              | nulsified Oils  |   |  |
| g) Chlorid                         | es  |   |  |
| h) Chemic                          | cal Oxygen Demand (C.O.I                              | D.):  |  |
| i) 5-day Bi                        | io-chemical Oxygen Demand                             | d ( <b>B.O.D.</b> ):  |  |
| j) Total O                         | Organic Carbon (T.O.C.):                              |   |  |
| hex. an<br>total da                | d triv. Antimony, Lead, Maily discharge of each metal | ation (Important—list each metercury. Copper, Vanadium, N   | ickel; give concentration and  |
| 1) Toxic M                         | aterial—Name and concentr                             | ration (e.g., cyanide salts, etc.):   |  |
|                                    |   | (Lacquers, Varnishes, Synthetic   |  |
| o) Date an                         | nd time span of sample:                               |   |  |
| Do you pre                         | treat any waste before disch                          | arge?   |  |
|                                    |   | residue removed:  | · · · · · · · · · · · · · · · · · · ·  |
| Cert<br>shall be the<br>Wastewater | tification of Laboratory doin                         | ng sampling and making analys<br>on of Standard Methods for the<br>procedure is applicable, the lab | es shall be given. Procedures e Examination of Water and oratory is to describe method |

Signature and title of person preparing report

O182



TELEPHONE 201 792 2400



CMICAGO
MANFORD
HOBOKEN
LOS ANGELES
MEMPHIS
OMAHA
READING
TULSA

#### UNITED STATES TESTING COMPANY

INCORPORATED

MAIN LABORATORIES 1415 PARK AVENUE

HOBOKEN. N. J. 07030 July 17, 1972

Mr. Iannaconne Westinghouse electric Corp. Plane & Orange St. Newark, New Jersey 07101

Dear Mr. Iannaconne:

Per our recent conversation, we are enclosing the correctly identified result sheets, pages 3 and 4, to be placed in our report #67170 of June 12, 1972. Please disregard the identification of results on our orginal data sheets.

In reference to your question about the solvents and resins analyses, these analyses were not performed after preliminary investigations indicated there was not sufficient volumes of either present to be detectable.

Our chemist Boyd Fagan would also be willing to meet with some of your people to discuss the results we have supplied you with

We hope we have provided you with all the necessary information Please do not hesitate to contact us if further information or clarification is necessary.

Yours truly, UNITED STATES TESTING CO.INC.

E. Rider Supervisor

Environmental Sciences Division

# REPORT OF WATER AND WASTEWATER ANALYSIS

| Sample No.: 3 Description Commo   | ositë Ol     | art o                                  | ines,                                |          |
|---|--------------|--|--------------------------------------|----------|
| Sample No.: Description   |              | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |                                      |          |
|   | SAMPL        |  | ·                                    | SAMP     |
| TEST  | <u> </u>     | <u> </u>                               | TEST                                 | 3        |
| Asidity (as CaCO <sub>3</sub> )   | <b></b>      | ļ                                      | Surfactants                          |          |
| Alkalinity, Total (as CaCO <sub>2</sub> )                                       | ļ            | <b></b>                                | Aluminum                             |          |
| Mainty  | <b> </b>     |  | Antimony                             |          |
| **************************************  |              | <b></b>                                | Arsenic                              |          |
| Carbonate   |              | - <b>4</b>                             | Berytlium<br>Cadmium                 |          |
| Sichibonate  Corpanic Carbon  |              |  | Cadmium<br>Calcium                   | 1        |
|   | 2.5          |  |                                      |          |
| Miles Organic Carbon  Lighthical Oxygen Demand (COD)  Charles  Micrine Residual | 19.65        |  | Chromium, Total Chromium, Hexavalent |          |
| Cooperate Caygen Demand (COO)   | 656.0        |  | Cobalt Cobalt                        |          |
| Morphe Residual   | 190          |  | Copper                               |          |
| Unformated Hydrocarbons   |              |  | Iron                                 | <0.1     |
| Livenides   | 0.44         |  | Lead                                 | 40.1     |
| Pain des  | 0.3          |  | Magnesium                            | <0.3     |
| dicones, Total  | 0.5          | <del></del>                            | Manganese .                          |          |
|   | <del> </del> |  | Mercury                              | 0000     |
| Repon   | <del> </del> |  | Molybdenum                           | .0007    |
| Ammonia   |              |  | Nickel                               | 0.4      |
| Mitrate   |              |  | Potassium                            |          |
| Nitrite   |              |  | Selenium                             |          |
| Kjeldahi  |              |  | Sodium                               |          |
| ON/Grease   | 4.0          |  | Tin                                  |          |
| H (Unita)   | 7.2          |  | Titanium                             |          |
| benols  |              |  | Zinc                                 | 0.59     |
| Prosphate, Total  |              |  | Immediate Oxygen Demand              | 3 8 9 4  |
| Bilica, Dissolved   |              |  | Biochemical Oxygen Demand (5 days)   | 11.1     |
| Polide  |              | ·                                      | Biochemical Oxygen Demand (20 days)  |          |
| Total   | 796          |  | Coliform, Total (MPN/100 mis.)       |          |
| 3uspended   | 20           | •                                      | Colitorm, Fecal-(MPN/100 mis.)       | ، قرور ، |
| Volatile Total Dissolved  | 172          |  | Fecal Streptococcus (MPN/100 mls.)   |          |
|   |              |  | Total Plate Count (per ml.)          |          |
| Volatile Suspended  | 10           |  | Odor (Units)                         |          |
| Settleable Solids   |              |  | Color (Units)                        | ·        |
| Sulfates  | 200          |  | Specific Conductance (micromhos/cm.) | r        |
| Suifides  |              |  | Taste (Units)                        |          |
| Sulfites  |              |  | Turbidity (J.T.U.)                   | <18      |
| <b>letal</b> Non-Volatile Suspended   |              |  | Silver                               | <0.1     |
| ptal Non-Volatile Solids  | 524          |  |                                      |          |
|   |              |  |                                      |          |
|   | ]            |  |                                      |          |

#### United States Testing Company. Inc.

CLIENT: Westinghouse, Newark, N.J.

Emission spectrograph semi-quantitative analyses.

| Sample Number | <u>1</u> | <u>2</u> | 3  |
|---------------|----------|----------|----|
| Aluminum      | m        | m1       | m  |
| Arsenic       | ND       | -        | -  |
| Antimony      | ND       | -        | -  |
| Barium        | ND       | -        | -  |
| Boron         | ND       | -        | -  |
| Bismuth       | ND       | -        | -  |
| Cadmium       | ND       | ~        | -  |
| Calcium       | P        | P        | P  |
| Chromium      | ND       | ND       | m  |
| Cobalt        | ND       | ••<br>·  | -  |
| Copper        | t        | m        | t  |
| Iron          | Ml       | Ml       | M  |
| Lead          | tl       | -        | -  |
| Lithium       | ND       | -        | -  |
| Magnesium     | Ml       | ~        | -  |
| Manganese     | t1       | -        | _  |
| Molybdenum    | ND       | -        | -  |
| Niobium .     | ND       | -        | -  |
| Nickel        | ml .     | m        | ml |
| Sodium        | Pl       | м .      | P1 |
| Silicon       | м        | M.).     | Ml |
| Silver        | ft       | -        | -  |
| Tantalum      | ND       | -        | -  |
| Tin           | tl       | t        | tl |
|               |          |          |    |

Page 5

CLIENT: Westinghouse, Newark, N.J.

M-No

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Emission spectrograph semi-quantitative analyses.

| Sample Number | <u>1</u> | 2 | <u>3</u> |
|---------------|----------|---|----------|
| Titanium      | . +1     |   | _        |
| Tungsten      | CI       | - | -        |
| Vanadium      | ND       | ~ | -        |
| Zinc          | ND       | - | _        |
|               | tl       | - | · •      |
| Zirconium     | ND       | - | _        |
|               |          |   |          |

Percent of total solids.

P - 10 to 100%
M - 1 to 10%
m - .1 to 1.0%
t - .01 to .1%
ft - less than 0.01%
vft - very faint trace

\* - less than figure shown
h - Upper half of range shown
l - Lower half of range shown
NB - Not detected

the pollution

Aquatechnics

Hinsdale, Illinois

(312) 325-2005

July 21, 1970 Proposal for Consult

> Engineering Service Industrial Wastewate

Treatment

Our File No. XP-55

Mr. S. Iannaccone Plant Engineer Measurements Division Newark, New Jersey

#### Dear Mr. Iannaccone:

As per our discussion, we are pleased to submit our proposal for the above noted engineering services.

We propose to conduct on-site sampling of wastes emanating from the plating operations, as well as total plant effluent; run treatability tests on these wastes; define the problems; and study alternate solutions to these problems.

In defining the problems and establishing the degree of treatment required, we shall utilize criteria found for similar wastes in several of the states in which we have had experience. Among these states are Illinois, Indiana, New York, Ohio, and Pennsylvania.

We propose to commence this work within one (1) month of acceptance of this proposal. We suggest a budget figure of \$10,000. This sum will not be exceeded.

If you have any questions regarding this proposal, please feel free to call upon us.

> Westinghouse Electric Corporation Aquatechnics - Consulting Engineers

Harris E. Dicker

Manager

HED/JZW/sak

Mr. T. Berry

Mr. P. Frank



Pittsburgh Westinghouse Bldg. - Gateway Center

Mr. B. A. Kerns Manager Environmental Control From : Relay-Instrument Division

WIN

Date : October 3, 1972

Subject:

Waste Effluent Survey

To keep you abreast of the development in this area with respect to the Newark Plant and the Passaic Valley Sewerage Authority, I am enclosing a copy of our report submitted July 18, 1972 to PVSA. On Tuesday, September 26, a representative of the Passaic Valley Sewerage Authority stopped in to take samples of our effluent for review by the State of New Jersey EPA. He had little knowledge how these samples would be used but he did indicate that they were looking for mercury. He also indicated that their new Treatment Plant would on line in about 4-5 years and at this time the thinking is that industrial users would pay a surcharge, and perhaps some minimum local treatment of effluent before discharging into the system would be required.

As further information becomes available, I will keep you advised.

S. C. Iannaccone Works Engineer

SCI/sd



teturn to:
PASSAIC VALLEY SEWERAGE COMMISSIONERS
600 Wilson Avenue
Newark, N. J. 07105
(201) 344-1800

|                        | 3_19_75<br>Date: |
|------------------------|------------------|
| Plant Ref. No. 1DE0122 |                  |

## WASTE EFFLUENT SURVEY

(For Industries Served by the Passaic Valley Sewerage Commissioners)

| Plant Name: Westinghouse Electric Corp., Relay-             | -Instrument Division   |   |
|---|------------------------|---|
| Address: 95 Orange Street, Newark, New Jerse                |                        | 07101                                   |
| Person and Title to whom any further inquiries should be di |                        |   |
| S. C. Iannaccone, Manager Works Engineer                    | ing                    |   |
| Phone No.: 465-2432   |                        |   |
| Number of Employees: 1300                                   |                        |   |
| Number of Working Days Per Week: 5                          | State L.               |   |
| Number of Shifts Per Day: 1200 People 1st Shift, 93         | 2nd Shift, 2 3rd Shift |   |
| Area of Property: 3.45 Acres, or .                          |                        | Sq. Ft.                                 |
| Type of Industry and 4 digit U.S. Standard Industrial Class | 4                      |   |
| Electrical Machinery and Equipme                            | ent i                  |   |
| Finished Product(s): Relays and Instruments                 |                        | ••••••••••••••••••••••••••••••••••••••• |
| Average Production: 15,000, 20,000 units per mont           | ih .                   |   |
| Raw Materials Used: Steel, plastics, copper, coat           | ing materials          |   |
| Brief Description of Operations: Parts are fabricated       |                        | chine shops                             |
| and assembled into completed units.                         |                        |   |
| •   |                        |   |
|   |                        |   |
|   |                        |   |

Water received in Gallons (Note: multiply cu. ft. x 7.48) Purchased water in 19 74 from: City of Newark 19,750,250 1st Quarter ..... 15,287,250 2nd Quarter ..... 12,750,250 3rd Quarter ..... 15,750,250 4th Quarter ..... Total Purchased 19\_74: 63,538,000 Well Water 30,000,000 1st Quarter ..... 30,000,000 2nd Quarter ..... 30,000,000 4th Quarter ..... Total well water received in 1974: 120,000,000 River Water 1st Quarter ..... 2nd Quarter ..... 3rd Quarter ..... 4th Quarter ..... Total river water taken in 19 74: - 0 -TOTAL OF ALL WATER RECEIVED IN 19 74: 183,538,000 Water Use in 19 74: 500,000 Water to Product (include evaporated and lost water): ....... 91,638,000 Water to Sanitary Sewer: ..... Old well. Returned to earth Water to \$1,400,000 TOTAL WATER USE IN 1974 : 91,638,000

Name of River, Stream, or Tributary, and location of storm sewer or ditch outlet to river, stream,

## ANSWER THE FOLLOWING QUESTIONS ONLY IF THE PLANT WASTE INCLUDES WASTE ATTRIBUTABLE TO INDUSTRIAL OPERATIONS

(Note: Analyses should be based on a 24-hour composite sample)

| Characteristics of Plant Waste discharge if any. Indicate units of measure where applic                                     | d to sanitary or combined sewer, after treatmentable (e.g. Mg/l).   |
|---|---|
| a) pH:  | b) Turbidity: less than 18 JTU  |
| c) Temperature: 47-60 °F  |   |
| e) Solids Concentration:  |   |
| 1) Total Solids 796 mg/L V  |   |
| 2) Suspended Solids 20 mg/L V   | ol n e 10.0 mg/L Mineral 10 mg/L  |
| f) Oil and Grease Concentration:  |   |
| 1) Floatable Oils   |   |
| 2) Emulsified Oils  |   |
| g) Chlorides 190 mg/L   |   |
|   | 656 mg/L  |
| i) 5-day Bio-chemical Oxygen Demand (B.O.D.   | ): 11.1 mg/L  |
| j) Total organic carbon (T.O.C.):   |   |
| k) Metallic Ions—Name and concentration (Imphex. and triv. Antimony, Lead, Mercury, Cototal daily discharge of each metal.) | portan—list each metal in waste, e.g., chromiun<br>pper, Vanadium, Nickel; give concentration and   |
| copper         < 0.1 mg/L   | er Co.3 mg/L Zinc 0.59 mg/L er cury 0.0007 mg/L Silver < 0.1 mg/L   |
| 1) Toxic Material—Name and concentration e.g  | ., cyanide salts, etc.): <2.5 mg/L (Bromides)   |
| Cyanides $0.44 \text{ mg/L}$  |   |
| m) Solvents—Name and concentration: No  | ne .  |
| · -   | s, Varnishes, Synthetics): None   |
|   | 4/18/72 3 P.M. 4/19/72  |
| (continuing for 8 hours per day, 5 days per weel<br>minutes at 100 gal./min.) (Continuous 24 ho<br>3 M.G.D.) etc.           | aste to Sanitary Sewer and peak rate of flow, e.g. k at 100 gal./day rate) (batch twice a day for 20 purs steady or with peaks at 2 P.M., peak rate |
| Large Plant tied in at six locations r  | esults are composite of all lines. Most of  |
| flow is 5 days 8 A.M 12 Midnight. A   | verage flow 25,000 Gal/Hr Peaks 9-10 A.M.   |
| and 1-3 P.M. 30,000 Gals/Hr. Midnigh  | t to 8 A.M. 5000 Gals/Hr  |

| Indicate units of measure where applicate a) pH:   |  | •••••                                   |
|--|--|---|
| c) Temperature:  |  | Ycs No                                  |
| e) Solids Concentration:   | <u>u, -u</u>   |   |
| 1) Total Solids  | Volatile   | Mineral                                 |
| 2) Suspended Solids  |  |   |
| f) Oil and Grease Concentration:   | voutile  | *************************************** |
| 1) Floatable Oils  |  |   |
| 2) Emulsified Oils   |  |   |
| g) Chlorides   |  |   |
| h) Chemical Oxygen Demand (C.O.D   |  |   |
| i) 5-day Bio-chemical Oxygen Demand  |  |   |
| j) Total Organic Carbon (T.O.C.):  | •  |   |
| k) Metallic Ions—Name and concentrations. Antimony, Lead, Metotal daily discharge of each metal.   | rcury, Copper, Vanadium, I<br>):                         | Nickel; give concentration and          |
| l) Toxic Material—Name and concentral m) Solvents—Name and concentration:  | tion (e.g., cyanide salts, etc.)                         | );                                      |
| n) Resins—Name and concentration (   |  | •                                       |
| o) Date and time span of sample:   |  |   |
| Do you pretreat any waste before discha-   |  |   |
| If so, describe process and disposal of rea  |  |   |
|  |  |   |
| Certification of Laboratory doing shall be those shown in the 13th edition Wastewater, where applicable. If no prand procedure used in analyses. | sampling and making analy<br>of Standard Methods for the | he Examination of Water and             |
| - अ <sup>क्ट्र</sup> ि- <b>54</b>  | Signature and titl                                       | le of person preparing report           |



From WIN Gateway 235-3616

Date :

June 27, 1974

Subject: Oil Pollution Preventi SPCC Plan

Mail to: V. P. Valeri

Headquarters Works Engineering

Westinghouse Building

Pittsburgh, Pennsylvania 15222



We have examined the attached information and:

Have determined that these regulations do not apply to this location.

We have a SPCC Plan on file and have enclosed a copy of this plan for the Corporate File.

Our SPCC Plan is in the process of further refinement and approval; it will be forwarded to you by August 1, 1974.

Name Commander

Title Mag. Wash Garage

Division Malan Mig

Location Relandon Mark

Note we have a common storage acility with Bloomfield, Willside, and sover at 29 Riverside live newach 4.9 F. Hangel of Bloomfield has agreeded to file necessary Plan. Il Junior com

FORM 3504 I



From: Relay-Instrument Division

Newark, N.J.

Date: March 20, 1975

Subject: Waste Effluent Survey

Pittsburgh Westinghouse Bldg. - Gateway

Mr. B. A. Kerns Manager Environmental Control

To keep you abreast of the development in this area with respect to the Newark Plant and the Passaic Valley Sewerage Authority, I am enclosing a copy of our report submitted March 20, 1975 to PVSA.

As further information becomes available, I will keep you advised.

733000

S. C. Iannaccone, Manager Works Engineering (att.)

NEWAKE NI

CARMINE T. PERRAPATO

PASSAIC VALLEY SEWERAGE COMMISSIONERS

SEYMOUR A. LUBETKIN CHIEF ENGINEER

THOMAS J. CIFELLI

600 WILSON AVENUE NEWARK, N.J. 07105 (201) 344-1800 CHARLES C. CARELLA CHIEF COUNSEL

ROBERT J. DAVENPORT BEN W. GCRDON JOSEPH M. KEEGAN COMMISSIONERS

re 54

MRS. CHARLES T. SCHAEDEL

January 6, 1977

Westinghouse Electric Corporation 90 Orange Street Newark, New Jersey 07101

Dear Sir:

In accordance with Federal regulations PVSC must develop data from those industries that discharge heavy metals to the sanitary sewer.

A review of the Waste Effluent Survey which you recently submitted to PVSC indicated that your industrial waste stream contained one or more heavy metals, such as chromium, nickel, lead etc.

Please check below the statements that accurately describe your operations or portions thereof and return the completed form within 10 working days.

The above company:

Electroplates ferrous or nonferrous basis materials with common or precious metals;

[] Anodizes ferrous or nonferrous materials;

Coats ferrous or nonferrous materials(chromating, phosphating etc.);

[] Does not conduct electroplating operations. The heavy metals originate from the following operation or operations;

Very truly yours,

rank P. D'Ascensio

PASSAIC VALLEY SEWERAGE COMMISSIONERS

Date 1/16/77

Signature

845990195

#### 845990196

merwal Applic

#### PASSATC VALLEY SEWERAGE COMMISSIONERS

#### SEWER CONNECTION APPLICATION

#### PART I - SECTIONS A-C

#### SECTION A: GENERAL INFORMATION

| Applicant is | 3 ; |
|--------------|-----|
| Corporation  |     |
| Partnership  | _   |
| Other        |     |

| 1.  | Company Name: Westinghouse Electric Corporation   |
|-----|---|
| 2.  | Location: 95 Orange Street  |
|     | Newark, NJ Zip Code: 07101  |
| 3.  | Mailing Address: Same   |
|     | Zip Code:   |
|     | Name, title, address and telephone number of person to contact concerning information provided in this application: |
| 4.  | Name of Contact Official: R. Zeiller  |
|     | Title: Supvr. Ind., Mfg. & Works Engineering Phone No.: 465-2452  |
| 5.  | Address:Same  |
| 6.  | Number of Employees - Pull Time: 577 Part Time: None  |
| 7.  | Number of Work David Book.  |
| •   | Number of Work Days Per Weck: 5  Number of Shifts Per Day: 2  |
|     | Is production seasonal? No If so, explain:  |
|     | •   |
|     | New Users Only: Indicate date user desires to commence operation:   |
|     |   |
| 9.  | If property is owned, indicate Lot and Block Numbers:   |
|     | l9Assessed Value:   |
|     | If property is rented, indicate name and address of Landlord:   |
|     | SECTION B: PRODUCT OR SERVICE INFORMATION   |
| 1   | Brief description of manufacturing or other activity performed:   |
| 1.  | Electrical manufacturer of relays and instruments   |
|     | steeriest mandracedier of relays and instruments  |
|     |   |
| 12. | Principal raw materials used: Ferrous and non-ferrous metals  |
|     | and plastics  |
|     |   |
| 3.  | Principal products or services: Relays and Instruments  |
|     |   |
|     |   |
|     | 832/8016441   |

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#### SECTION C: WATER DATA

| Water Receiv | ved: Year <u>198</u> | O (Repor                                | rt Volume i | n Gallons)                          |
|--------------|----------------------|---|-------------|-------------------------------------|
|              | PURCHASED            | WELL                                    | RIVER       | TOTAL                               |
| lst Otr.     | 10,054,616           | 13,032,000                              |             | 23,086,616                          |
| 2nd Otr.     | 11,123,506           | <b>w</b>                                |             | 24,155,508                          |
| 3rd Qtr.     | 8,964,032            | W                                       |             | 21,996,032                          |
| 1th gtr.     | 8,386,576            | , н                                     | -           | 21,418,576                          |
|              | 19 80                | _ GRAND TOTAL                           | 90          | 0.656.732                           |
|              |                      | NOTE: Cu. F                             |             |                                     |
| Name water   | supplier: tewa       | rk Water Dept.                          |             | #: 07766827000<br>#: 07766826000    |
| Is well wate | er metered?          | No Is 1                                 | rivor water | motorod?                            |
| Water Distri | bution: Year 1       | 9_80(Report                             | t Volume in | Gallons)                            |
| Use (Li      | st totals in g       | allons per year                         | r)          | City Well (Gals. x 100              |
| (a) sanita:  | ry sewer (incl       | ude industrial                          | & domestic  | (Gals. x 10°<br>) 36,529 20.0       |
| (b) separa   | te storm sewer       | , river, or di                          | tch         | •                                   |
| (c) contain  | ned in product       |   |             |                                     |
| (d) evapor   | ation                |   |             | . 2.0 0                             |
| (f) clean wa | ter returned to      | ground wells<br>ion Number of W         |             |                                     |
| Is volume i  | n 17 (a) mepsu       | red? City How                           | ? Metered   |                                     |
| Certificati  | on:                  | Well                                    | Estimat     | eđ                                  |
| to me and,   |                      | my knowledge                            |             | ation is familia<br>such informatio |
| attached gr  |                      | rporation, a có<br>authority to s<br>1. |             |                                     |
| Name of Sig  | ning Official:       | R. Zeil                                 | ler         |                                     |
| Title: Sup   | er. Ind., Mfg. &     | Works Engineering                       |             |                                     |
|              | ·<br>•               |   | ج کرا       | 0111.7                              |
|              | 2/6/81               |   |             |                                     |
|              | Date                 |   | / 1         | ature                               |
|              |                      | (I-2)                                   | 83          | 32/8016442                          |

#### PART II - SECTIONS D-F



These sections must be completed if the Applicant:

- (a) discharges more than 25.000 gallons per day of either domestic and/or industrial wastes to the sanitary or combined sewer, or,
- (b) discharges toxic wastes or wastes which can have a significant impact on the PVSC treatment works.

Questions regarding the applicability of this form to your facility may be

| Company Name: _ | Westinghouse Electric Corporatio   | n                        |
|-----------------|--|--------------------------|
| Location:       | 95 Orango Street, Newark, NJ 071   | 01                       |
|                 |  |                          |
|                 |  | •                        |
|                 | SECTION D: OPERATIONAL CHARACTERI  | STICS                    |
| Discharge of in | dustrial wasto is continuous   | or intermittent X        |
| Discharge of in | dustrial waste occurs between the f  | following hours: 6:30 AM |
| Industrial Wast | e is, or may be discharged:  | · · · · · ·              |
| (a) only to th  | e sanitary (or combined) sewer   | Yes                      |
|                 | e sanitary (or combined) sewer<br>rate storm sewer, river or ditch         | No                       |
| (c) NPDES Perm  | it Number  |                          |
|                 | al variations, if any, giving dates<br>ons in product lines which affect w |                          |
| Negligible so   | asonal variation in plant production                                       | on. 280 or more product: |
| days annualy.   | Vacation scheduled plant shutdown  | - week each in July and  |
| December.       |  |                          |
| Describe any pr | etreatment process in use: No  | no                       |
|                 |  |                          |
|                 |  |                          |

832/8016443

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- .. Describe any treatment process applied to raw water taken into the plant:
  - 1. Poiler feed water is treated for corrosion and scale and pH.
  - 2. Air conditioning cooling tower water is treated for corrosion, scale and pH.
- 25. Describe any processes used to recycle water: 1. (2) Paint Spray Booths water wash type; 2. Air conditioning cooling towers (6); 3. 75t well water supply is used for equipment cooling and returned to ground or discharged to sewage after usage in sanitary facilities. (ATTACH ADDITIONAL SHEETS IF NECESSARY)

#### SECTION R: SEWER CONNECTION INFORMATION

| 26. |     | rlet •<br>Mber | SEWER SIZE<br>(INCHES) | DAILY FLOW<br>(GALLONS) | CONTAINS INDUSTRIAL WASTE (YES OR NO) |
|-----|-----|----------------|------------------------|-------------------------|---------------------------------------|
| • ; | 1 2 | B~B<br>B~B     | 14<br>10               | 78,737<br>18,200        | Yes                                   |
|     | 3   | R-1<br>J-1     | 8<br>5                 | 19,503<br>12,361        | **                                    |
|     | 5   | I-1<br>I-1     | 4 CI)<br>4 DI) 6 DI    | 41,748<br>20,874        | 1P<br>11                              |
|     | 6   | Yard<br>H-B    | 6<br>6                 | 3,323<br>7.143          | NO NO                                 |

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

Attach a plot plan of the property, showing:

- (a) all existing or proposed sewer and drain lines (including outlets to a storm sewer, HANA HANA);
- (b) sample point(s);
- (c) details of the connection(s) to the municipal (or PVSC) sewer, including the distance and direction of each connection from the nearest street intersection.

\*If only one outlet, leave blank.

Number multiple outlets starting with 1.

832/8016444 ...

#### SECTION F: ANALYSIS OF INDUSTRIAL WASTE



27. Analysis listed below is based on a composite sample of industrial waste taken from the following outlets listed in Section E:

Outlots 1, 2, 3, 4, 5 and 8

(See instructions for proportioning samples from more than one outlet)

28. Analytical Data: Concentration values are to be reported in mg/l (ppm) unless specified otherwise; analyze waste for those parameters marked with an asterisk (\*), analyze waste for other parameters reasonably expected to be present. Code numbers are for internal use only.

PRIVILEGE

| REPORT TO THE NEAREST UNIT: X (EXAMPLE: 150 mg/l) |                                    |       |  |  |  |
|---|------------------------------------|-------|--|--|--|
| CODE  | Parameter                          | VALUE |  |  |  |
| *0100   | Color (Apha Units)                 | 5     |  |  |  |
| 0200  | Radioactivity (PL-1)               | 1     |  |  |  |
| * 0500  | Total Solids                       | 919   |  |  |  |
| * 0505  | Total Volatile Solids              | 229   |  |  |  |
| . 0510  | Total Mineral Solids               | 690   |  |  |  |
| * 0530  | Total Sumpended<br>Solids          | 13    |  |  |  |
| <b>,</b> 0540                                     | Volatile Suspended .<br>Solids.    | 10    |  |  |  |
| + 0550  | Mineral Suspended<br>Solids        | 3     |  |  |  |
| * 0070  | Turbidity (JTU)                    | 4     |  |  |  |
| 0550  | Emulsified Oil or<br>Grease        | 20    |  |  |  |
| * 0940  | Chlorides                          | 102   |  |  |  |
| * 0945  | Sulfates                           | 195   |  |  |  |
| * 0310  | Biochemical Oxygen<br>Demand (BOD) | 7     |  |  |  |
| * 0340  | Chemical Oxygen<br>Demand (COD)    | 47    |  |  |  |
| * 0680  | Total Organic<br>Carbon (TOC)      | 7     |  |  |  |

| REPORT TO THE NEAREST TENTH: 0.X (EXAMPLE 1.6 mg/l) |                                |         |  |  |  |
|---|--------------------------------|---------|--|--|--|
| ZOOD  | Parameter                      | VALUE   |  |  |  |
| 0745  | Sulfide                        | _       |  |  |  |
| 0740  | Sulfite                        | •       |  |  |  |
| 8260  | Surfactants (MBAS)             |         |  |  |  |
| * 9000  | pH (standard units)<br>(range) | 6.5-7.5 |  |  |  |
| 0625  | Kicldahl N as N                | ₩       |  |  |  |
| 0610  | Ammonia as N                   |         |  |  |  |
| 0620  | Nitrate as N                   | -       |  |  |  |
| 0615  | Nitrite as N                   | -       |  |  |  |
| 0507  | Ortho Phosphates as P          | •       |  |  |  |
|   | Cyanido Total                  | 0.24    |  |  |  |
|   | Cyanide A                      | < 0.10  |  |  |  |
|   | Fluoride                       | < 0.10  |  |  |  |
|   | Phosphorous                    | 0.15    |  |  |  |

## PRIVILEGED

| REPO         | RT TO THE NEAREST HUNDREDT<br>(EXCEPT WHERE INDICAT<br>(EXAMPLE: 0.36 mg/1)  |                                |     | REPOR        | T TO THE NEAREST HUNDRED (EXCEPT WHERE INDICATE) (EXAMPLE: 0.36 mg/) | ATED)          |
|--------------|--|--------------------------------|-----|--------------|--|----------------|
| CODE         | PARAMETER  | MILAV                          |     | CODE         | PARAMETER  | VALUI          |
| 1097         | Antimony (Sb)  | -                              |     | 1900         | (Report to Mercury 0.XXX)  | 0.0            |
| 1002         | Armenic (An)   | -                              |     | 1067         | Nickal (Ni)  | 0.7            |
| 1022         | Boron (B)  | -                              |     | 1147         | Salanium (Sc)  |                |
| 1027         | Cadmium (Cd)   | <0.01                          |     | 1077         | Siver (Aq)   | < 0.0          |
| 1034         | Chromium Total (Cr)  | < .05                          |     | 1102         | Tin (Sn)   | < 0.81         |
| 1042         | Copper (Cu)  | 1.05                           |     | 1092         | Zinc (%n)  | 1.10           |
| 1045         | Iron (Pe)  | 0.46                           |     | 4053         | (Report to Pesticides 0.XXX)   | _              |
| 1051         | Lead (Pb)  | 1.18                           |     | 2730         | Phenol   |                |
|              | Chromium VI  | < 0.05                         |     |              |  |                |
| l            |  |                                |     |              |  |                |
|              | Samples collected by: U.S  |                                |     |              |  |                |
| 30.          | Samples analyzed by: "   | **                             |     | *            | " Date. 2/22   | /80            |
|              | Products being manufacture Relays and ins  |                                | ple | was co       | ollected:  |                |
| Co           | Relays and Ins   | LLumentes                      |     |              |  |                |
| Tho is the b | information contained in Poest of my knowledge and be applicant is a corporatority to sign the applicat  Name of Signing Official:  Title: Supvr. Ind. | elief, sucion, a corion on beh | por | nformate res | tion is true, complete, solution is attached graph corporation.      | and accu       |
|              | 2/6/81<br>Date   |                                |     |              | Kaller   |                |
|              | Date   | (II-4)                         |     |              | Signatuke  | <del>-</del> - |

832/8016446

COMPLIANCE SCHEDULE

#### Westinghouse Electric Corporation 95 Orange Street Newark, N. J. 07101

PRIVILEGED

#### 2) Monitoring

- a) Project assigned to Mr. O. J. D'Amato or our Works Engineering Department on Pebruary 2, 1981.
- b) Included in our sower connection application submitted February 27, 1980 is a report from U.S. Testing Company, Inc., of Plant effluent which was sampled and analyzed in January 1980.
- c) Final plans and specifications to be completed by April 15, 1981.
- d) First equipment to be ordered by April 15, 1981.
- e) Construction to be completed by August 1, 1981.
- f) Facility to be on stream by September 1, 1981.

R. Zeiller

Supvr./Ind., Mfg., &

Works Engineering

RHZ/sd



estinghouse Electric Corporation

**Power Systems** 

PRIVILEGED

**Pulay-Instrument Division** 

95 Orango Street Newark New Jersey 07101 (201) 405 0222

February 13, 1981

Passaic Valley Sewerage Commissioners 600 Wilson Avenue Newark, N. J. 07105

Attention: Mr. John Kinder

As a result of the meeting and discussion with you on January 20, 1981, there is enclosed a revised and updated sewer connection application and a compliance schedule covering the monitoring phase.

The report prepared by the U.S. Testing Company indicates that in our Plant composite all parameters including BOD and TSS are extremely low. Consequently, we would like to submit the following sampling plan for your consideration and approval:

- Five (5) check points to be sampled daily. These five check points are as noted on print titled "sewer sample check points" dated 3-1-74 and are identified as sample points #1, 2, 3, 4, and 5. We are considering combining the check points in Building I and J thus eliminating sample point #5 since this would be already included in sample point #4 if this is physically possible.
- 2. The daily samples from the sample check points to be combined into one composite Plant sample for analysis each week.

If the above sampling plan is acceptable to you, it would save us considerable labor and analysis expense.

We are considering the purchase of ISCO Model 1580 automatic samplers. We believe that these units would be satisfactory to you for the obtaining of samples, and would expect that any future requirements of PVSC would permit this continued use of such units.

Supvr/ Ind., Mfg., &

Works Engineering

RHZ/sd

DEEPH M. KEEGAN MARMAN

HOMAS J. CIPELLI CE CHAIMAN

INCENT CORRADO
DEENT J. BAYENPORT
ICHARD M. GIACOMARRO
DI W. GORDON
HARLES A. LAGOS

PASSAIC VALLEY SEWERAGE COMMISSIONERS

600 WILSON AVENUE NEWARK, N. J. 07105 (201) 344-1800

BELAITEGED

CARMINE T. PERRAPA EXECUTIVE DIRECT

ROCCO D. RIC

CHARLES C. CAREL CHIEF COUNT

NORMAN E. DARMSTATTI

**"Mar 1 9 1981** 

WESTINGHOUSE ELECTRIC CORP.

95 ORANGE STREET

NEWARK, NJ 07101

REFLEC TA

. .

. ATTENTION: - - HENNIEL

RE: Pretreatment for Mercury

On December 3, 1980, the Passaic Valley Sewerage Commissioners held a Public Hearing to review a proposed pretreatment regulation for Mercury. Subsequent to this Hearing PVSC received various comments from industrial users and other individuals. After a thorough review of all the data available an interim pretreatment regulation was enacted on March 10, 1981. The interim regulation is significantly less stringent than the one which had been proposed initially. Attached to this letter is a copy of this regulation together with a Basis Document which explains the rationalle for the limitations contained in the regulation. It should be emphasized that this is only an interim regulation and that the final regulation has yet to be determined.

Tour company has been identified by PVSC as an actual or potential discharger of mercury. Therefore, you will be required to conduct a 3 month monitoring program to aid us in determining the total contribution of mercury from the industrial users of our sewerage system. The sampling program will run from April 27 through July 24, 1981. Your company is required to sample and analyze for mercury as follows:

Analyze a representative daily composite sample of industrial waste once per month for 3 consecutive months.

832/8016438

You may already be sampling and analyzing for User Charge. It is permissible to also analyze this sample for mercury as needed. A sample form is enclosed for your use in reporting the results. Note that it is also necessary to report the total volume discharged during the monitoring period as well as the total number of days worked. The instructions for preparation and handling of the mercury samples are contained in the attached regulation, and are in addition to the User Charge sampling requirements. If you have any questions please call Tom Mack in the Industrial Waste Control Department.

Very truly yours,

PASSAIC VALLEY SEWERAGE/COMMISSIONERS

Frank P. D'Ascensio,

Superintendent of Industrial Waste Control

FPD/saj

ENCLOSURE 3

832/8016439 ~--



#### United States Testing Company, Inc.

Environmental Sciences Divisic

1415 PARK AVENUE . HOBOKEN, NEW JERSEY 07030 . 201-792-2400

Correct

#### REPORT OF TEST

05487

NUMBER

CLIENT:

Westinghouse Electric Corp.

PRIVILEGED

October 28, 19

95 Orange Street Newark, NJ 07101

SUBJECT:

24-hour composite wastewater samples collected by USTC personnel 9/29-30/81.

#### Project:

Chemical and Biological analysis of the submitted samples

#### Procedure:

Four 24-hour composite wastewater samples were collected 9/29-30/81 at each of four sites identified by the Client. The sites were identified as outlets 1 through 4, and are located as follows:

| Outlet # | Location                      |  |  |
|----------|-------------------------------|--|--|
| 1        | Manhole in telaphone room     |  |  |
| 2        | Pit outside of telephone room |  |  |
| 3 ்      | Cleanout in pit in warehouse  |  |  |
| 4        | Manhole on Lackawanna Avenue  |  |  |

Each of the 24-hour composite samples were analyzed individually. Further, two samples were prepared by mixing aliquots of these samples. An industrial waste composite was prepared by mixing aliquots from outlets 1, 3, and 4; and a plan composite was prepared by mixing aliquots of all outlet samples. The composites were mixed in proportion to estimated flows for e outlet, as supplied by the Client.

832/8016489

SIGNED FOR THE COMPANY

Page 1 of 3

E.Rider/vh

Allan Tordini

Laboratories in: New York • Chicago • Los Angeles • Tulsa • Memphis • Philadelphia • Richland unityed states testing company, inc. Reports and letters are for the exclusive use of the client to whom your are addressed and they are name of the unity states testing company. Inc., on its state of insignia are not to be used under any concurred to advertising to the effect, fund the states of the states of the states of the company in may notify due to the appropriate any propriations to the states of the

United States Testing Company, Inc.

CLIENT:

Westinghouse Electric Corp.

Corrected 05487 Number 10/28/8

. i. a

#### Procedure (Continued):

PRIV LEGED

The proportioning scheme was as follows:

| Outlet # | Portion of Total Plow (%) |
|----------|---------------------------|
| 1        | <b>4</b> 5                |
| 2        | 6                         |
| 3        | 8                         |
| 4        | #<br><b>4:1</b>           |

Analyses were performed in accordance with the current United States Environmental Protection Agency procedural requirements for National Pollutant Discharge Elimination System Permits as specified by the Environmental Protection Agency, unless modifications or alterations of the specific procedures are indicated. The procedures can be found in the following specific references.

- 1) Methods for Chemical Analysis of Water and Wastes, Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, Ohio, 1979
- 2) Standard Methods for the Examination of Water and Wastewater, American Public Health Association, 14th edition, 1975
- 3) Annual Book of Standards, part 31, 1979, American Society of Testing and Materials

832/801,6490



Westinghouse Electric Corporation

**Power Systems** 

Relay-Instrument Olvision

95 Orange Street Newark New Jersey 07101 (201) 465 0222

November 4, 1981

Passaic Valley Sewerage Commissioners 600 Wilson Avenue Newark, New Jerscy 07105

PRIVILEGED

ATTENTION: Mr. Thomas Mack

Supervisor of Industrial Waste Control

In our letter dated February 13, 1981 to the Passaic Valley Sewerage Commissioners, attention of John Kinder, we made certain proposals relative to the monitoring phase and the use of one plant composite sample. As a result of changes we made in our system and a recent analysis of our industrial waste, we wish to modify our sampling plan and submit evidence to justify our request for utilizing one industrial waste plant composite sample. The modified sampling plan we wish to submit for your consideration and approval is as follows:

- 1. Three (3) outlets to be sampled daily. These three outlets are as noted on print titled "Sewer Sample Check Points" dated 3/1/74 and are identified as sample points #1, 3 and 4. Sample point #5 has been excluded since this will be included by utilizing sample point #4. Outlet #2 now contains only domestic waste and is not included in the sampling plan.
- 2. The daily samples from the three outlet sample check points to be combined into one industrial waste plant composite sample for analysis on a weekly basis.

In addition to city water our plant is supplied with well water from a well located on the premises. In order to accurately determine our well water consumption and the amount discharged into the sewerage system, we have installed water meters in our well supply system at key locations. For your information there is enclosed a copy of a memorandum dated August 7, 1981 from Alvin L. Mach, Director, Department of Engineering for the City of Newark, outlining the procedure for reading these meters to determine the net discharge to the sewerage system. The metering system together with the city water meters, less a small amount for evaporation, will permit precise accounting of water consumption both for our control of water usage and for sewerage tax abatement.

## - 2 - privileGED November 4, 1981

There is enclosed a copy of a test report dated October 28, 1981 made by United States Testing Co., Inc. The test results of this report were used in our calculations for substantiating our request for use of an industrial waste plant composite sampling plan.

The estimated flow at each of the four outlets is outlined in table titled "Sewer Outlet Flow Chart." In this table we have also listed variations from estimated flow figures of 25% and 50% increases and 25% and 50% decreases in both outlets No. 1 and No. 4 in order to demonstrate the effect such variatic would have upon the total TSS and BOD charge.

Using the test report analysis results together with the estimated flows and variations thereof, we have calculated the cost of the TSS charge, BOD charge and combined TSS and BOD charge. The industrial composite test results and the total amount of industrial sewerage were utilized to determine an annual cost of TSS and BOD for comparison with the TSS and BOD cost resulting from the individual outlets. The TSS charge was based upon \$38 per ton and the BC charge was based upon \$70 per ton. The results of these calculations are out lined in table titled "Annual Cost of TSS and BOD in dollars."

Since we now have a method for precisely determining total water consumption for sewerage tax abatement and the very small change in TSS and BOD charge in the event of variations in flow at the two main outlets, we are requesting your consideration and approval to avoid the installation of flow measuring devices in the sewerage outlets and to permit us to utilize one industrial waste plant composite sample to be analyzed on a weekly basis.

Sincerely yours,

WESTINGHOUSE ELECTRIC C

R. Zeiller Supervisor

Ind \_ Mfq. & Works Engi

RZ:lns Enc.

#### SEWER OUTLET FLOW CHART

#### ESTIMATED SEWERAGE PER YEAR IN THOUSANDS OF GALLONS

| Outlet<br>No. | Total<br>Sewerage | Percent<br>of Total | Industrial<br>Sewerage | Percent of Total |
|---------------|-------------------|---------------------|------------------------|------------------|
| 1             | 23,056            | 45                  | 23,056                 | 48               |
| *2            | 3,066             | 6                   |                        |                  |
| 3             | 4,323             | 8                   | 4,323                  | 9                |
| 4             | 20,655            | 41                  | 20,655                 | 43               |
|               | 51,100            | 100                 | 48,034                 | 100              |

PRIVILEGED

### ASSUMED VARIATIONS IN INDUSTRIAL SEWERAGE PER YEAR IN THOUSANDS OF GALLONS

| Outlet<br>No. | 25% Increase<br>at No. 1<br>Decrease at No. 4 | 50% Increase<br>at No. 1<br>Decrease<br>at No. 4 | 25% Decrease<br>at No. 1<br>Increase at No. 4 | 50% Decrease<br>at No. 1<br>Increase<br>at No. 4 |
|---------------|---|--|---|--|
| 1             | 28,820  | 34,584   | 17,292  | 11,528   |
| 3             | 4,323   | 4,323  | 4,323   | 4,323  |
| 4             | 14,891  | 9,127  | 26,419  | 32,183   |
|               | 48,034  | 48,034   | 48,034  | 48,034   |

<sup>\*</sup>Domestic Sewerage Only

### ANTIAL COST OF TSS AND BOD IN DOLITYS

TSS

#### PRÍVILEGED

| Outlet<br>No. | At<br>Estimated<br>Flow | 25% Incr.<br>at #1<br>Decr. at #4 | 50% Incr.<br>at #1<br>Decr. at #4 | 25% Decr.<br>at #1<br>Incr. at #4 | 50% Decr.<br>at #1<br>Incr. at #4 |
|---------------|-------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| 1             | 71.19                   | 88.98                             | 106.76 -                          | 53.39                             | 35.59                             |
| 3             | 14.35                   | 14,35                             | 14.35                             | 14.35                             | 14.35                             |
| 4             | 44.16                   | 31.82                             | 19.51                             | 56.47                             | 68.78                             |
| TOTAL         | 129.70                  | 135.15                            | 140.62                            | 124.21                            | 118.72                            |

BOD

| 1     | 28,25 | 35.30 | 42,36 | 21.17 | 14.12 |
|-------|-------|-------|-------|-------|-------|
| 3     | 13.48 | 13.48 | 13.48 | 13.48 | 13.48 |
| 4     | 6.02  | 4.34  | 2.66  | 7.70  | 9.38  |
| TOTAL | 47.75 | 53.12 | 58.50 | 42.35 | 36.98 |

TSS & BOD

|       |        |        |        |        | r      |
|-------|--------|--------|--------|--------|--------|
| TOTAL | 177.45 | 188.27 | 199.12 | 166.56 | 155.70 |

INDUSTRIAL COMPOSITE - ANNUAL COST IN DOLLARS

| TSS   | 148.69 |
|-------|--------|
| BOD   | 21.01  |
| TOTAL | 169.70 |

EFH M. KEEGAN

MAS J. CIFELLI CHAIRMAN

CENT CORRADO SERT J. DAYENFORT HARD M. GIACOMARRO 4 W. GORDON ARLES A. LAGOS IMISSIONERS PASSAIC VALLEY SEWERAGE COMMISSIONERS

600 WILSON AVENUE NEWARK, N. J. 07105 (201) 344-1800

--

CARMINE T. PERRA

ROCCO O. F

CHARLES C. CAR CHIEF COL

NORMAN E. DARMSTA

January 14, 1982

Westinghouse Electric Corporation 95 Orange St. Newark, N.J. 07101

RE: Industrial Sewer Connection

Permit

ATTENTION: Mr. R. Zeiller

Dear Mr.

Enclosed you will find your Industrial Waste Permit for discharge into the PVSC system.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS

Frank P. D'Ascensio,

Superintendent of Industrial Waste Control

FPD/saj

CC: Dr. Marwan Sadat, NJDEP Richard Baker, USEPA

## PASSAIC VALLEY SEWERAGE COMMISSIONERS SEWER CONNECTION PERMIT

| Permit # 20402052  |
|--|
| (Please use the Permit Number on any correspondence with PVSC)     |
| In compliance with the provisions of the Federal Water Pollution   |
| Control Act, its amendments, the Clean Water Act and the Rules and |
| Regulations of the Passaic Valley Sewerage Commissioners:          |
| WESTINGHOUSE ELECTRIC CORP.  |
|  |
| (herein, after referred to as the Permittee)                       |
| is authorized to discharge from a facility located at              |
| 95 ORANGE STREET   |
| MEWARK, N.J. 07101   |
| to the Passaic Valley Sewerage Commissioners Treatment Works in    |
| accordance with discharge limitations, monitoring requirements and |
| other conditions set forth herein.                                 |
|  |
| Effective Date 1-12-d2   |
| Expiration Date 1-12-87  |

PASSAIC VALLEY SEWERAGE COMMISSIONERS

Thief Engineer

#### CONDITIONS

#### A. General Prohibitions

- (1) No person shall discharge or deposit or cause or allow to be discharged or deposited into the treatment works or public sewer any waste which contains the following:
- (A) Explosive Mixtures. Pollutants which create a fire or explosion hazard to the treatment works, collection system or to the operation of the system. Prohibited materials include, but are not limited to, gasoline, kerosine, naphta, benzene, toluene, xylene, ethers, etc.
- (B) Corrosive Wastes. Any waste which will cause corrosion or deterioration of the treatment works. All wastes must have a pH not less than 5 nor more than 9. Prohibited materials include, but are not limited to, acids, sulfides, concentrated chloride or fluoride compounds, etc.
- (C) Solid or Viscous Wastes. Solid or viscous wastes which would cause obstruction to the flow in a sewer, or otherwise interfere with the proper operation of the treatment works. Prohibited materials include, but are not limited to, uncomminute garbage, bones, hides or fleshings, cinders, sand, stove or marble dust, glass, etc.
- (D) Oils and Grease. (a) Any industrial wastes containing floatable fats, wax, grease or oils. (b) Any industrial wastes containing more than 100 mg/l of emulsified mineral oil or grease
- (E) <u>Noxious Material</u>. Noxious or malodorous solids, liquids or gases, which, either singly or by interaction with other waste are capable of creating a public nuisance or hazard to life, or a or may be sufficient to prevent entry into a sewer for its maintenance and repair.

  845990214

- (F) Radioactive Wastes. Radioactive wastes or isotopes of such half life or concentration that they do not comply with regulations or orders issued by the appropriate authority having control over their use and which will, or may, cause damage or hazards to the treatment works or personnel operating the system.
- (G) Excessive Discharge Rate. Industrial wastes discharged in a slug of such volume or strength so as to cause a treatment process upset and subsequent loss of treatment efficiency.
- (H) Heat. (a) any discharge in excess of 150°F (65°C)

  (b) Heat in amounts which would inhibit biological activity in the PVSC treatment works resulting in a treatment process upset and subsequent loss of treatment efficiency, but in no case shall heat be introduced into the PVSC treatment works in such quantities that the temperature of the influent waters at the treatment plant exceed 40°C (104°).
- (I) Unpolluted Waters. Any unpolluted water including, but not limited to, cooling water or uncontaminated storm water, which will increase the hydraulic load on the treatment system, except as approved by PVSC.
- (J) <u>Water</u>. Any water added for the purpose of diluting wastes which would otherwise exceed applicable maximum concentration limits.
- (2) No person shall discharge or convey, or permit to be discharged or conveyed, to the treatment works any wastes containing pollutants of such character or quantity that will:
  - (A) Not be susceptible to treatment or interfere with the

process or efficiency of the treatment system.

- (B) Violate pretreatment standards. As pretreatment standards for toxic or other hazardous pollutants are promulgated by USEPA for a given industrial category, all industrial users within that category must immediately conform to the USEPA timetable as well as any numeric limitations imposed by USEPA. In addition, an industrial user shall comply with any more stringent standards as determined by PVSC or other agency.
- (C) Cause the PVSC treatment plant to violate its NPDES permit, applicable receiving water standards, permit regulating sludge which is produced during treatment or any other permit issued to PVSC.

#### B. INSTALLATION OF SAMPLERS

The permittee shall install - 24 hr. composite sampler on Outlets

1,3-4 acceptable to PVSC with attachments for affixing seals,

which shall be maintained in proper working order at all times.

The installed samplers shall draw a sample, over each operating day, which shall be representative of plant waste.

A one quart or one liter aliquot shall be set aside by  $( \quad g_{:00 \; A.M.} \quad ) \; \text{each operating day and refrigerated:} \; \; A$  PVSC representative may pick up this sample during the day. Any sample not picked up by PVSC may be discarded at the end of that day.

<sup>\* .</sup>Composite sample of 3 outlets to be available.

# C. EFFLUENT LIMITATIONS, MONITORING AND COMPLIANCE REQUIREMENTS

During the period beginning ( 1-12-82 ) and lasting through ( 1-12-87 )
the permittee is authorized to discharge from outlet(s) number (ed) (20402051-41900-0201)
 Such discharges shall be monitored by the permittee as specified below.
Permittees # for Outlets 1, 3, 4. Volume discharged to be determined from water consumption data including well, less 54 credit for evaporation.

| EFFLUENT CHARACTERISTIC | DISCHARGE L       | MITATIONS  | MONITORING REQUIREMENTS  |                |                     |   |  |
|-------------------------|-------------------|------------|--------------------------|----------------|---------------------|---|--|
|                         | ZOXDAY<br>BOANSYA | RKAEKZHKKĀ | MEASUREMENT<br>FREQUENCY | SAMPLE<br>TYPE | REPORTING<br>PERIOD |   |  |
|                         |                   |            | ·                        |                |                     |   |  |
| POD (0317)              | X X X X X X X     | *****      | WEEKLY                   | 24 Hr. Comp.   | QUARTERLY           |   |  |
| TSS (C530)              | x x x x x x       | *****      | WEEKLY                   | 24 Hr. Comp.   | QUARTERLY           |   |  |
| VOLUME                  | * * * * * * *     | xxxxxx     | *****                    | x x x x x x    | QUARTERLY           |   |  |
|                         |                   |            |                          |                | •                   |   |  |
|                         |                   |            |                          |                |                     |   |  |
|                         |                   |            |                          |                |                     | ) |  |
|                         |                   |            |                          |                |                     |   |  |
|                         |                   |            | ,                        | ·              |                     |   |  |
| 2/8016473               |                   |            |                          |                |                     |   |  |
|                         |                   |            |                          |                |                     |   |  |
|                         |                   |            |                          |                | }                   |   |  |

# C. EFFLUENT LIMITATIONS, MONITORING AND COMPLIANCE REQUIREMENTS

1. During the period beginning ( 1-12-82 ) and lasting through ( 1-12-87 ) the permittee is authorized to discharge from outlet(s) number (ed) (20402052-41900-0201) Such discharges shall be monitored by the permittee as specified below.

Permittees # for Outlet #2. Sanitary waste only to be discharged from this outlet. Volume to be determined from water consumption data.

| EFFLUENT CHARACTERISTIC   DISCHARGE LIMITATIONS |                     |                    | MONITORING REQUIREMENTS              |                  |  |  |
|---|---------------------|--------------------|--------------------------------------|------------------|--|--|
|   | XXXXBXY<br>XXXERXGE | BREDY: WAXX        | MEASUREMENT SAMPLE<br>FREQUENCY TYPE | REPORTING PERIOD |  |  |
|   |                     |                    |                                      |                  |  |  |
| BOD (0310)                                      | ****                | ****               | N/A* N/A*                            | xxxxxx           |  |  |
| TSS (0530)                                      | * * * * * * *       | ****               | N/A* N/A*                            | x x x x x x      |  |  |
| VOLUME  | *****               | ****               | *****                                | X X QUARTERLY    |  |  |
| * Concentration for U                           | ser Charge to be    | determined from Re | sidenti <b>a</b> l Strength.         |                  |  |  |
| 2/8016474                                       |                     |                    |                                      |                  |  |  |
|   |                     |                    |                                      |                  |  |  |

2. In addition to the monitoring required in Section C.1. the Permittee is required to meet the following schedule of compliance:

A. 1-12-82 Outlet #5 to be combined with Outlet #4.

1-18-82 Commence daily sampling.

B. When final pretreatment standards are promulgated, Permittee shall review baseline report in the light of the final regulation. If changes in compliance schedule are deemed necessary, Permittee shall re-submit baseline report in accordance with CFR 403.12 and any subsequent revisions.

### D. Monitoring and Reporting

Monitoring results obtained during the previous ( 3 ) months shall be reported on the designated Discharge Monitoring Report, PVSC Form MR-1 or 2, postmarked no later than the (15th ) day of the month following the completed reporting period. The first report is due on ( 4/15/82 ). Properly signed reports required herein shall be submitted to PVSC at the following address: Chief Engineer Passaic Valley Sewerage Commissioners

Samples and measurements taken as required herein shall be representative
of the volume and nature of the monitored discharge.

#### 3. Test Procedures

600 Wilson Avenue

Newark, New Jersey 07105

Test procedures for the analysis of pollutants shall conform to regulations contained in the PVSC Rules and Regulations, Federal, State and local laws or regulations.

### 4. Recording of Results

For each measurement of a sample taken pursuant to the requirements of this permit, the permittee shall maintain a record of the following information:

- a) The date, exact place and the time of sampling;
- b) The dates the analyses were performed;
- c) The person(s) who performed the analysis;
- d) The analytical techniques or methods used; and
- e) The results of all required analyses.

### 5. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the locations (s) designated herein more frequently than required by this permit, using the approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report Forms, (FVSC Form MR-1 or MR-2). Such increased frequency shall also be indicated.

#### 6. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed, calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a minimum of (5) years.

#### 7. Definitions

- a. The "30 day average" discharge means the average of daily values for 30 consecutive monitoring days. For the purpose of enforcement of Pretreatment Standards, consecutive samples taken and analyzed shall be considered as being taken on consecutive days even though one or more non-sampling days intervene. In applying the Pretreatment Standards where more than one but less than 30 samples have been taken and analyzed during any month, a formula, specified by USEPA, will be used to calculate the "30 day average".
- b. The "daily Maximum" discharge means the highest discharge by weight or other appropriate units, as specified herein, during any calendar day.
- c. "Daily" each operating day.
- d. "Weekly" one day each week during a normal operation day.
- e. "Monthly one day each month during a normal operating day.
- f. "Composite a combination of individual samples obtained at regular intervals over the entire discharge day.

The volume of each sample shall be proportional to the discharge flow rate unless specifically modified by PVSC. For a 24 hour continuous discharge, a minimum of 24 individual samples shall be collected at equal intervals and at least once per hour. For continuous discharges of 12 to 24 hours, individual samples shall be taken at equal intervals and at least once per hour. For continuous discharges of less than 12 hours, individual samples shall be taken at least once every 30 minutes. For discharges which are not continuous, individual samples shall be taken such that they will be representative of plant waste.

- g. "Grab" an individual sample collected in less than 15 minutes
- h. "Quarterly" every three (3) months.
- i. "N/A" not applicable.

### E. MANAGEMENT REQUIREMENTS

1. Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, production increases, or modification which will result in new, different, or increased discharges of pollutants must be reported by submission of a new PVSC Sewer Connection Application or, if such changes will not violate the effluent limitations specified in this permit, by notices to PVSC of such changes. Following such notices, the permit may be modified to specify and limit any pollutants not previously limited.

# 2. Noncompliance Notification

If, for any reason, the permittee does not comply with, or will be unable to comply with any effluent limitation specified in this permit, the permittee shall notify PVSC within 24 hours of the occurrence. If this report is made orally, a written report containing the following information, shall be submitted within five (5) working days:

- a. a description of the discharge and the cause of the period of noncompliance;
- b. the period of noncompliance, including exact dates and times, or, if not corrected, the anticipated time the noncompliance is expected to continue, and
- c. the steps being taken to reduce, eliminate and prevent a recurrence of the noncomplying discharge.

### 3. Facilities Operation

The permittee shall at all times maintain in good working order and operate as efficiently as possible all pretreatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

### 4. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to the PVSC Treatment Works resulting from non-compliance with any pretreatment limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge. This condition in no way affects PVSC's right to suspend a permit in order to stop a discharge which presents an imminent or substantial hazard to the public health, safety or

welfare to the local environment or which interferes with the operation of the PVSC Treatment Works.

### 5. Removed Substances

Solids, sludges, filter backwash or other pollutants or hazardous waste removed in the course of pretreatment or control of wastewaters and/or the treatment of intake waters shall be disposed of in accordance with applicable Federal, State and local laws and regulations. Records documenting such disposal shall be made available to PVSC for review upon request.

# F. MANAGEMENT RESPONSIBILITIES

1. Right of Entry

The permittee shall allow the authorized representatives of PVSC, upon the presentation of credentials:

- a. To enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and
- b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring methods required in this permit; and to sample any discharge of pollutants.
- 2. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities from which the authorized discharges emanate, the permittee shall, in writing, notify the succeeding owner or controller of the existence of this permit, and the need to apply for a new permit, a copy of which shall be forwarded to PVSC.

### 3. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, or revoked in whole or in part during its terms for cause including, but not limited to, the following:

- a. Violation of any terms or conditions of this permit;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

### 4. Toxic Pollutants

Notwithstanding (Section C), above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition), is established under Section 307 (b) of the Federal Water Pollution Control Act (the Act), its amendments, or any other subsequent law or regulation, for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified.

# 5. Civil and Criminal Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

### 6. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to

any applicable State Law or regulation under authority preserved by Section 510, of the Federal Water Pollution Control Act. (The Act)

### 7. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

### 8. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

P.O. BOX 584 FAR HILLS, NJ 07931 (201) 234-0234

March 9, 1982

City of Newark 920 Broad Street Newark, New Jersey 07102

Attention: Mr. Alvin L. Zach

City Engineer

Re: Westinghouse - Relay Division - Sewage Monitoring Systems

Gentlemen:

The Westinghouse Electric Corporation - Relay Division has been ordered by the Passaic Valley Sewerage Commissioners to monitor the waste being discharged to the City of Newark sanitary sewer system. The permit obtained from the Commissioners requires the sampling of flow from four principal discharges to the City system. Discharge No. 1 is to a city sewer on University Boulevard, the sampling of which will be accomplished within the Westinghouse complex. The second discharge is to a city sewer on Orange Street and will be sampled within the Westinghouse complex. The remaining two connections discharge to a city sewer on Lackawanna Avenue. The sewer on Lackawanna Avenue terminates near High Street and services only the Westinghouse complex in the vicinity of the connection of the two discharge sewers. and to facilitate the sampling of these two lines, it has been proposed that a sampling system be installed in a city manhole downstream of the connection of these two sewers to allow the sampling of their combined flow.

CFM Incorporated has been retained by the Westinghouse Electric Corporation - Relay Division to design, install and maintain the aforementioned sampling systems. In this regard we have prepared the attached plans showing the proposed means of sampling at all four locations. We would appreciate your review and approval of the proposed sampling system identified as Location No. 4 (Sheet No. 2). The\_

# CFM INCORPORATED

City of Newark March 9, 1982 Page 2

system proposed includes the installation of an automatic sampler within the Westinghouse complex, the installation of an underground galvanized conduit from the Westinghouse complex to a city manhole located nearby in the sidewalk area of Lackawanna Avenue, and the installation of a sampling system within the manhole generally as shown on the plan. The system as proposed would necessitate little modifications to the city manhole and would be non-obstructive to flow. Proper seals would be included to prevent gas from the sewer system entering the Westinghouse complex, and all electrical components would be located within the complex. Samples would be obtained through a vacuum purge system. Under our maintenance contract with Westinghouse, we would inspect and clean the system (if required) at regular intervals to insure that no materials were trapped on the sampling hose causing blockage, etc.

We would appreciate your comments on this system if any and your approval for the use of the City of Newark manhole for sampling purposes and for construction within the sidewalk area of Lackawanna Avenue. We will retain a subcontractor to install the conduit and to restore the sidewalk. Permits for this work will be obtained by him as you may require.

Westinghouse is anxious to proceed with the installation of this facility as soon as possible. Your early review in this regard is most appreciated.

Very truly yours,

CFM INCORPORATED

hh J. Flood, P.E.

JJF:h1 Enclosures

ã.

cc: Mr. Peter S. Safran Westinghouse Electric Corp.

Kenneth A. Gibson Mayor

Department of Engineering

920 Broad Street Newark, New Jersey 07102 201 733-8520

Atvin L. Zech, P.E.; L.S. Director

March 17, 1982

Mr. John J. Flood, P.E. CFM Incorporated P.O. Box 584 Far Hills, New Jersey 07931

Re: Westinghouse-Relays Division: Sewage Monitoring Systems ...

Dear Mr. Flood:

THE REPORT OF THE PROPERTY OF

We are in receipt of your correspondence dated March 9, 1982 concerning the referenced matter. We have no objections to the concepts presented in your letter. We would prefer that all sample points be located on Westinghouse property, but as long as the owners accede to the following requirements the proposed arrangement is permissable.

- 1) Westinghouse Electric Corporation must accept the fact that the existing sever in Lackawanna Avenue is a public combined sever. The possibility is remote that new storm or sanitary sever will be connected into this sever, however, the city reserves the sole right of permitting such new connections. If such connections were made, they might compromise the effectiveness of the proposed sampling system.
- 2) In order to install the sampling apparatus in the city right-of-way and sewer, the company must formally request an easement, stating the purpose of the easement, and include a metes and bounds description with survey drawing prepared by a licensed surveyor. In addition, the existing drawing number two must be revised to show the location of all other utilities that are in the vicinity of the proposed installation.
- 3) The company, must agree to sign a "Hold-Harmless" agreement in a form to be supplied by the city wherein Westinghouse shall agree to assume all liability that may arise by reason of their use of a municipal sewer.
- 4) The company must agree to have insurance in types and amounts agreeable to the municipal corporation counsel.

If your client wishes to proceed under the above conditions, please so notify us.

Very truly yours,

832/8016558

Department of Engineering

**8**45990229



Westinghouse Electric Corporation **Switchgear Divisions** 

Relay-Instrument Division

95 Orange Street Newark New Jersey 07101 (201) 485 0222

April 1, 1982

Mr. Alvin L. Zach, P.E. Director Department of Engineering 920 Broad Street Newark, New Jersey 07102

Subject: Westinghouse Relay-Instrument Division Sewage Monitoring System

Dear Mr. Zach:

We are reviewing a copy of your letter to CFM Incorporated concerning sewage sampling. So that we may make a full evaluation, will you please send us your specific requirements of points 3 and 4 of your letter, that is, the Hold-Harmless agreement and the types and amounts of insurance required including the specific documents involved.

Very truly yours,

Peter S. Safran

Mfg. Engineer

Works Engineering

PSS:jt

Enclosure

FRANK D'ASCENSIO CITY CLERK

PRIVILEGED

September 17, 1982

Westinghouse Electric Corporation 95 Orange Street Newark, New Jersey 07102

#### Gentlemen

At its regular meeting of September 15, 1982, the Municipal Council adopted on First Reading "ORDINANCE GRANTING PERMISSION TO THE WESTINGHOUSE ELECTRIC CORPORATION WITH OFFICES AT 95 ORANGE STREET, NEWARK, NEW JERSEY, TO CONSTRUCT AND MAINTAIN AT ITS OWN EXPENSE, A SEWER MONITORING SYSTEM IN LACKAWANNA AVENUE ALL WITHIN AN EASEMENT APPROXIMATELY FIVE FEET WIDE AND 18.5 FEET LONG." which is to be on Second Reading at the meeting of October 6, 1982.

The Council requested that I correspond with you and ask that you share the results from this monitoring system with the City of Newark.

Thank you in advance for your consideration in this matter.

Very truly yours rout D'ascenses

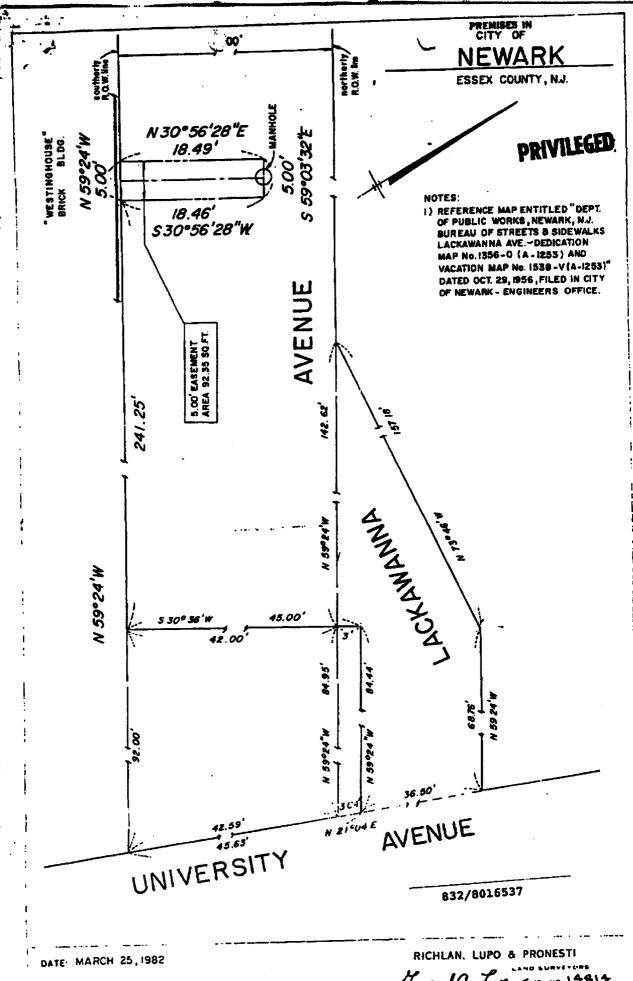
City Clerk

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Members of the Municipal Council

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Report. 10/28/82



SCALE: IO FT. = 1 INCH

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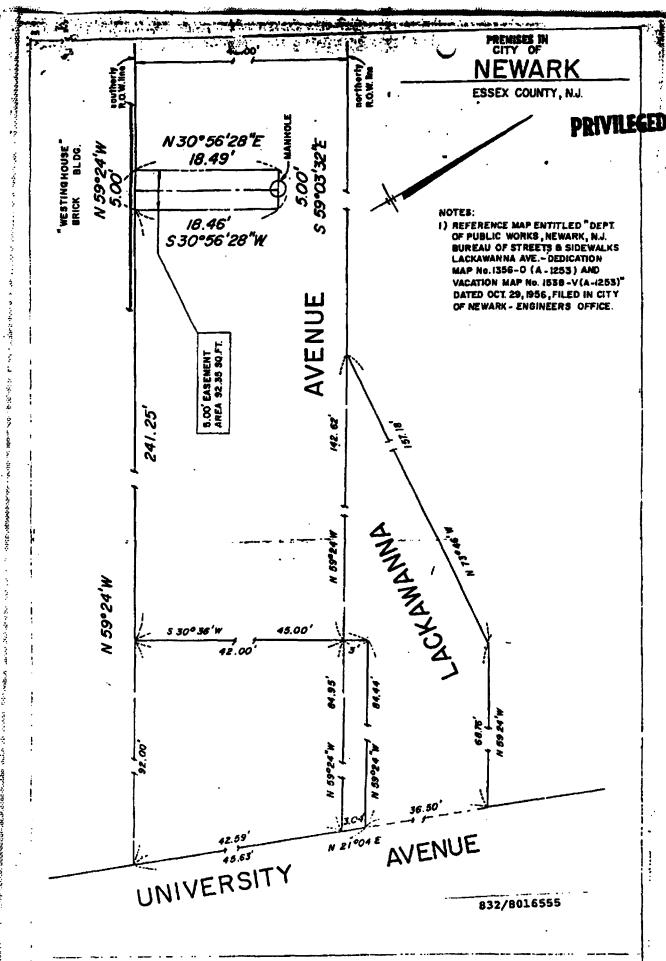
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470 ROSEVILLE AVENUE

NEWARK N 1 07107

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- E) STILL ALONG SAID LACKAWANNA AVENUE, SOUTH 30 DEGREES 36 MINUTES WEST, 45.00 FEET TO A ANGLE FOINT; THENCE
- C) STILL ALONG SAD LACKAWANNA AVENUE, NORTH 50 DEGLES LACK LUTES IVES , 241. 15 FEET TO THE POINT OF BEST LIMITS THENCE
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DATE: MARCH 25,1982

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RICHLAN, LUPO & PRONESTI

LAND SURVEYORS

470 ROSEVILLE AVENUE

# DESERIPTION OF 5.00 FOOT EASEMENT

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4) BOUTH 30 DETHEES 50 MINUTES 28 SECONDS WEST, 18.40 FEET TO THE FOINT AND PURCE OF BEGINNING



Measurements Divisions

95 Orange Street Newark, N. J. 07101 Telephane: (201) 465-0 465-

.April 8, 1982



Passaic Valley Sewerage Commission 600 Wilson Avenue Newark, New Jersey 07105

Attn: Mr. Frank P. D'Ascensio, Supt. Ind. Waste Control

Dear Mr. D'Ascensio:

This is to advise you that our sewage sampling installation is being delayed while clearance is obtained from the City of Newark for putting a sampling tube into their sewer. We anticipate no problems but preparing the necessary information for submittal, and getting the eventual approval, may take some time. Our contractor, CFM Incorporated, is ready to finish the installation as soon as the required permits are at hand.

Sincerely,

Peter S. Safran, Mfg. Engineer Works Engineering

PSS: it

cc: Mr. Mario Graglia

1034 Gateway 235-3846 May 17, 1982

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1024 CATEWAY

F. S. Anthony

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A. Wond

cc: P. S. Safran, Newark RiD

Relay Instrument Division, Lewert must sample its outfalls which go to the Passaic Valley Sewage Authority. Two of these outsalls contine in a Newart City sewer which presently carries call the flow from these two outfalls. The Newark plant would like to sample the two outfalls after they have combined. This would eliminate one sampling point and he less expensive. To do so will require cutting into a city sidewalk in order to lay a line into a presently existing manbole. The sewer is an open sewer, therefore the only other work which would be performed by westinghouse to install the sampling line would be to install trackets to support the line inside the sewer. The sampling coursest would be on westinghouse property.

Attacher is Mr. Safran's letter with attachments which include a draft ordinance, a leddl discription of the proposed easement and a copy of the KIP plant property description.

would you please review and advice Mr. Safran on this matter. A review as soon an poneithe would be appreciated necause the sampling was originally scheduled to have begun by now.

it you have any questions or comments, please give me a call.

Michele M. Gutman

Attorney

fit Grains, : 15190

Measurements Divisions

95 Orange Street Newark, N. J. 07101 Telephone: (201) 465-0

. June 25, 1982

PRIVILEGED

Mr. Vincent Olivo Passaic Valley Sewerage Commissioners 600 Wilson Avenue Newark, New Jersey 07105

Dear Mr. Olivo:

This is to confirm our phone conversation of June 22, 1982. Although we did move some activities to Florida, we have no plans to close this plant.

As to our sampling, sample points 4 and 5 are combined but in order to pull samples we must run a small pipe across less than 20° of sidewalk. The City of Newark has requested various documents and certification of insurance before it would grant the necessary easement. It appears the legal questions have been resolved and we are in the process of submitting the paperwork to the City. I am not familiar with how much time the City of Newark may take to process and approve the documents required.

Very truly yours,

Peter S. Safran,

Mfg. Engineer Works Engineering

PSS:jt

Newark

Ker neth A. Gibson May or

**Department of Engineering** 

PRIVILEGED

920 Broad Street Newark, New Jersey 07102 201 733-8520

Alvin L. Zach, P.E.; L.S. Director

November 12, 1982

Peter S. Safran, Mfg. Engineer Westinghouse Electric Corporation 95 Orange Street Newark, New Jersey 07101

Re: Sewage Monitoring System

Dear Sir:

Enclosed is a copy of Ordinance 6S & FF dated October 6, 1982, authorizing an easement for the referenced facility. Please note that under Section 5, the Westinghouse Electric Corporation must formally accept the terms of this ordinance. We request that you advise of your acceptance in the immediate future.

Determination of the costs of publication and recording fee are still underway Should you formally accept the provisions of the ordinance, an itemized bill will be forwarded to you.

201 733 - 8820

Very truly yours,

Robert Benz.

Principal Environmental Specialist

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City of Newark, N. J.

SH OSOIYZ GFK 091582 CONSTF 100082

Date to Mayor 10-7-

ANCE CRANTING PERMISSION TO THE WESTINGHOUSE ELECTRIC ION WITH OFFICES AT 95 ORANGE STREET, NEWARK, NEW JERSEY ruct and maintain at its own expense, a sever monitoring In Lackawanna avenue all within an easement approximately T WIDE AND 18.5 FEET LONG.

D BY THE MINICIPAL COUNCIL OF THE CITY OF NEWARK, NEW JERSEY:

 That permission is hereby granted to the Westinghouse pration to construct and maintain at its own expense and cost, toring System within and beneath Lackawanna Avenue as laid n width on the Map of the Commissioners to lay out streets, venues and squares all within a 5.0 feet wide easement as shown on the rawing entitled "Proposed Sewage Sampling Systems, Nestinghouse Electric orporation, Newark, New Jersey", dated 7/7/82 and prepared by John J. Tood, P.E., of the firm of CPM, Incorporated, P.O. Box 584 Far Hills, ew Jersey, and a survey entitled "Easement for Sewer Monitoring System or Westinghouse Corporation, Newark, New Jersey", dated March 25,1982, or repared by Gerard A. Lupo, L.S., of the firm of Richlan, Lupo & Pronesti, and Surveyors, 470 Rosewille Avenue, Newark, New Jersey. Land Surveyors, 470 Roseville Avenue, Newark, New Jersey.

Section 2. That the easement is more fully described as:

REGINNING at a point in the southerly line of Lackawanna Avenue, said point being distant the following courses from the intersection of the present southerly line of Lackawanna Avenue with the westerly line of University Avenue; thence running

- Along the southerly line of Lackawanna Avenue North 59 degrees 24 minutes West, 84.44 feet to an angle point; thence
- Still along said Lackawanna Avenue, South 30 degrees 39 minutes West, 45.00 feet to an angle point; thence
- Still along said Lackawanna Avenue, North 59 degrees 24 minutes West, 241.25 feet to the point of BEGINNING of easement; described as follows:
- Along the southerly line of Lackawanna Avenue, North 59 degrees 24 minutes West, 5.00 feet to a point; thence
- 2) North 30 degrees 56 minutes 28 seconds East, 18.49 feet to a point; thence
- 3) South 59 degrees 03 minutes 32 seconds East, to and through the center of a manhole, 5.00 feet to a point; thence
- 4) South 30 degrees 56 minutes 28 seconds West, 18.46 feet to the point and place of BEGINNING, containing 92.35 square feet.

Section 3. That such permission be and is hereby given upon the condition and provision that the said Westinghouse Electric Corporation. its successors and assigns, shall indemnify and save harmless the City of Newark, its officers, agents and servants from any claim whatsoever, arising from or in any way connected with the granting of said privilege or by reason of the installation, location, maintenance or the existence of such sewage monitroing system in the above described 5.0 foot wide easement in Lackawanna Avenue and shall agree to assume, on behalf of the City of Newark, the defense of any action of law or injury which may be brought against the City upon the claims.

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Section 4. That in addition to the aforesaid Indenmity Agreement, Westinghouse Electric Corporation, its successors and assigns, shall at its own cost and expense procure and keep in full force and effect paid up policies for Comprehensive General Liability Insurance in favor of the City of Newark, in an amount of at least \$ 100,000 covering bodily injury and property damage arising out of any one accident and \$ 200,000. for multiple occurences, said policies to be approved by the Corporation Counsel of the City of Newark. Proof of indemnification clause in Section 3, shall be filed with the City Clerk prior to installation. Said insurance shall not be subject to cancellation or change until sixty (60) days after the City Clerk has written notice thereof as evidenced by return receipt or certified or registered letter. In the event the properties, or any part hereof, that are served by the easement do not remain in the expersive of Nestinghouse Electric Corporation, the City shall be given notice thereof, and should the City find and determine that the use to which the aforesaid easement may be put may increase the hazard at the premises or affect the liability of the comprehensive coverage,

Section 5. That such permission be and is hereby given upon the condition that the Westinghouse Electric Corporation shall file with the City of Newark its written acceptance of the provisions of this Ordinance within thirty (30) days from the date on which it takes effect and shall pay on demand of the City of Newark the amount and cost and expense to the City for all official publications of this Ordinance as well as a recording fee.

the City may alter the terms of insurance as called for under this Section.

Section 6. That such permission hereby is granted, subject to all State Laws and City Ordinances governing the said installation, maintenance and use of the sewage monitoring system.

Section 7. That the Westinghouse Electric Corporation shall be responsible for the repair of and/or damage to paving, existing utility lines either public or private and other such structures or appurtenances arising from the construction or maintenance of their facilities in the easement area.

Section 8. In the event that the sewage monitoring facilities covered by the aforesaid easement are no longer used by either the Westinghouse Electric Corporation or by its successor in title, the City of Newark shall be so notified, and it shall have the right to terminate this easement and upon such termination all rights shall revert to the City. Upon the cessation of use of the sewage monitoring facilities the Westinghouse Electric Corporation its successors and assigns shall remove the facilities and revert the easement to its original condition.

Section 9. That so long as the sewage monitoring system covered by this easement remains in existence, the obligations and performances hereunder shall run with the land and shall be binding upon the Westinghouse Electric Corporation and upon all subsequent owners of the properties served by the easement.

Section 10. The Corporation Counsel of the City of Newark is authorized in his descretion to set forth the terms of this Ordinance in an agreement to be executed by the Director of Engineering of the Department of Engineering, on behalf of the City of Newark and attested by the City Clerk who shall affix the City's seal thereto. A fully executed copy of said agreement after delivery of the original to the Nestinghouse Electric Corporation shall be filed in the office of the City Clerk by the Director of Engineering.

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# PRIVILEGED

Section 11. That for the rights and privileges herein granted, said beneficiary, Westinghouse Electric Corporation, shall pay to the City of Newark the sum of \$150.00 upon the passage of this ordinance, and pay annually to the City of Newark on or before 15 January of each succeeding year a user charge of \$150.00 effective January next succeeding the time when this ordinance shall become effective.

Section I2. That a copy of the aforesaid drawing entitled 'Proposed Sewage Sampling Systems, Westinghouse Electric Corporation, Newark, New Jersey', dated 7/7/82 and prepared by John J. Flood, P.E., of the firm of CRM, Incorporated, P.O. Box S84, Far Hills, New Jersey is affixed hereto and made a part hereof.

Section 13. That a copy of the survey entitled "Easement for Sewer Monitoring System for Westinghouse Electric Corporation, Newark, New Jersey", dated March 25, 1982, prepared by Gerard A. Lupo, L.S., of the firm of Richlan, Lupo & Pronesti, Land Surveyors, 470 Roseville Avenue, Newark, New Jersey is affixed hereto and made a part hereof.

Section 14. This ordinance shall take effect upon adoption and publication in accordance with law.

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Measurements Divisions

95 Orange Street Newark, N. J. 07101 Telephone: (201) 465-0111

PRIVILEGED

November 23, 1982

Mr. Mario Graglia
Supervisor of Monitoring & Surveillance
Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey 07105

Dear Mr. Graglia:

This is to confirm my recent conversation with your inspector, relative to the low pH reading at our outlet #4.

It is our plan to convert an existing tank feeding that outlet to be a soda ash dispenser with an adjustable trickle valve. As sampling indicates an acidic pH more soda ash will be added, when it becomes more alkaline, soda ash will be reduced. Tank capacity is about 85 gallons. Work on the installation should commence the week of December 6, 1982.

Sincerely,

P.S. Safran, Mfg. Engineer Works Engineering

PSS:jt

CERTIFIED MAIL

THOMAS J. CIFELLI CHARMAN

RICHARD M. GIACOMARRO, SR.

VINCENT CORRADO, SR. ROBERT J. DAVENPORT JOSEPH M.KEEGAN CHARLES A. LAGOS ISAAC THOMAS. JR. COMMISSIONERS



600 WILSON AVENUE NEWARK, N. J. 07105 (201) 344-1800 CARMINET, PERI

CHARLES C. C.

NORMAN E DARMET

November 24, 1982

Mr. P. Safran Westinghouse Corp. 90 Orange St. Newark, N.J. 07101

RE: Monitoring for pH

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Dear Mr. Safran:

This is in reference to the meeting held on 11/16/82 between yourself: and Mr. Roselli of PVSC concerning pH results which were outside the limits specified in the PVSC Rules and Regulations. You informed Mr. Roselli that you were in the process of installing a holding tank which will be used to adjust the pH of your effluent manually prior to discharge to the sanitary sewer.

In order for PVSC to monitor the pH of your effluent and to insure that the discharge meets the limits specified in the PVSC Rules and Regulations, you are required to install a pH recorder in a suitable location. Please reply to this letter within 14 days indicating when the pH recorder will be installed and operating.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS

Carmine T. Perrapato, Executive Director

CTP:dk

cc: Frank P. D'Ascensio, Supt. Ind. Waste - Gabriel M. Ambrosio, Counsel

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# Westinghouse Electric Corporation

Measurements Divisions

95 Orange Street Newark, N. J. 07101 Telephone: (201) 465-01

December 3, 1982

Mr. Carmine T. Perrapato
Executive Director
Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey 07105

Dear Mr. Perrapato:

RE: Monitoring for pH

This is in reply to your letter of November 24, 1982. Apparently, originally there was a slight misunderstanding. It is not our intention to have an effluent holding tank, rather we will use a tank to hold soda ash. Soda ash will be released from this tank to neutralize low pH going into the sewer. Mr. Frank D'Ascensio indicated that my letter, which crossed yours, did clarify this point.

In either case, we recognize your request for a pH recorder. In line with that we have contacted suppliers for some type of pH monitor/controller/recorder. It would be our intention to put the sensor for this unit into the sewer just outside of our building, where we will also take the sewerage samples.

Assuming this is acceptable to your department, we hope to have firm quotes and plans early in 1983, and we shall contact you about final installation no later than week of January 10, 1983.

Very truly yours,

832/8016464

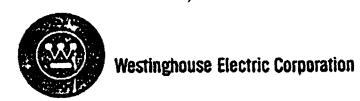
P.S. Safran, Mfg. Engineer Works Engineering

PSS:jt

CC: Frank P. D'Ascensio, Supt. Ind. Waste

DEC 3 1982

.. USE ASSIMENT



Relay-Instrument Division

95 Orange Street Newark, N. J. 071 Telephone: (201)

PRIVILEGED

January 12, 1983

Mr. Carmine T. Perrapato
Executive Director
Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey 07105

Dear Mr. Perrapato:

RE: Monitoring for pH

We have been reviewing how best to test for and control pil of the sewer line mentioned in your letter of November 24, 1982. Our suppliers have advised us that our initial plan of sampling and controlling may not work as efficiently as hoped,

Therefore, our present plan is to take periodic samples from the sampler about to be installed (we are negotiating for a construction permit from the City of Newark). Based on pH tests from these samples, which we shall record, we will initiate a neutralizing flow to raise the pH. We shall adjust the flow and monitor the results for about a four week trial. Based on the results of this trial we shall then formulate our subsequent plans.

The date of installation is based on when the permit is obtained. We shall send you a progress report no later than the week of February 14, 1983.

Very truly yours,

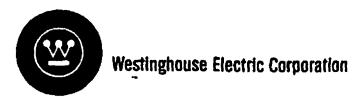
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P.S. Safran, Mfg. Engineer

Works Engineering

PSS:rc

CC: FRANK P. D" ASENSIO, SUPT. IND. WASTE



Relay-Instrument Division

95 Orange Street Newark, N. J. 07101 Telephone: (201) 465-

. March 23, 1983

Mr. Carmine T. Perrapato **Executive Director** Passaic Valley Sewerage Commissioners 600 Wilson Avenue Newark, New Jersey 07105

Dear Mr. Perrapato:

RE: Monitoring for pH

This is to advise you that the City of Newark finally granted the permit for Westinghouse to construct the connection to the sewer at sample point #4. Our contractor completed the installation and we started sewage sampling on 3-21-83.

At the same time our contractor made provisions to install the pH recorder, and he assures us it will be fully installed on or before April 30, 1983. We will notify Mr. D'Ascensio when the pH recorder is put into operation.

Very truly yours,

P.S. Safran,

Mfg. Engineer Works Engineering

CC: C.J. Michelini-Westinghouse

CC 11

F.P. D'Ascensio, Passaic Valley

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PSS:jt

# PRIVILEGED

RULES AND REGULATIONS

CONCERNING DISCHARGES TO

THE PASSAIC VALLEY

SEWERAGE COMMISSIONERS

TREATMENT WORKS

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### PART I - GENERAL PROVISIONS

#### SECTION 101 PURPOSE AND POLICY

101.1 These Rules and Regulations set forth uniform requirements for Dischargers into the PVSC wastewater collection and treatment systems, and enable PVSC to protect public health in conformity with all applicable State and Federal Laws relating thereto.

The objectives of these Rules and Regulations are:

- a) to prevent the introduction of pollutants into the PVSC Treatment Works which will interfere with the normal operation of the Treatment Works or contaminate the resulting sludge.
- b) to prevent the introduction of pollutants into the publicly owned Treatment Works which do not receive satisfactory treatment by the POTW or which pass through the system into receiving waters or the atmosphere or otherwise be incompatible with the POTW:
- c) to improve the opportunity to recycle and reclaim wastewater and sludge produced by the treatment processes. These Rules and Regulations provide for the regulation of discharges into the PVEC Treatment Works through the issuance of Sewer Connection Permits.

### SECTION 102 ADMINISTRATION

102.1 Except as otherwise provided herein, the Executive Director of the PVSC shall administer, implement and enforce the provisions of these Rules and Regulations. Any powers granted or duties imposed upon the Executive Director may be delegated by the Executive Director to the persons acting in the beneficial interest of or in the employ of the PVSC.

# SECTION 103 NOTICE PRIVILEGED

103.1 Unless otherwise provided herein, any notice required to be given under these Rules and Regulations shall be in writing and served in person or by certified mail. If served by mail, the notice shall be sent to the last address known to the Director. Where the address is unknown, service may be made upon the owner of record of the property upon which the alleged violation occurred. If the written notice served in person or by certified mail is not accepted, then said notice shall be posted in a conspicuous location by or on the property upon which the alleged violation occurred.

103.2 Notice shall be deemed to have been given at the time of deposit, postage prepaid, in a facility regularly serviced by the United States Postal Service. A dated, signed receipt shall be the determinant for the acknowledgement of such notice and the start of any time limitation.

#### SECTION 104 INSPECTIONS

- 104.1 Whenever it shall be necessary for the purpose of these Rules and Regulations, the Director, upon presentation of credentials, may enter upon property or premises for the purpose of (a) copying any records required to be kept under the provisions of these Rules and Regulations or Sewer Connection Permits; (b) inspecting the plant facilities or any monitoring equipment; and (c) sampling any discharge of wastewater to the treatment works.
- 104.2 Authorized personnel of the PVSC shall be provided immediate access to all the facilities directly or indirectly connected to the PVSC Treatment Works during normal working hours and at such other times as may be necessary during emergencies as determined by PVSC. All users

shall provide easy access to the sewerage facility to be inspected and shall promptly remove any permanent or temporary obstruction at the verbal or written request of the Director.

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104.3 No person shall interfere with, delay, resist or refuse entrance to an authorized PVSC inspector attempting to inspect any facility involved directly or indirectly with a discharge of wastewater to the PVSC Treatment Works.

#### SECTION 105 CHANGES

105.1 PVSC reserves the right to promulgate changes to these Rules and Regulations in order to conform to changes in USEPA or NJDEP regulations, or where deemed necessary to comply with the objectives set forth in Section 101. Public Hearings or Public Meetings shall be conducted in accordance with USEPA Public Participation requirements which are contained in 40 CFR 25 and its subsequent changes and revisions.

#### SECTION 106 TRADE SECRETS

purpose may request that such information or any part thereof be classified as "trade secrets." In the event that such request is granted, the designated material shall be treated as proprietary information and shall not be made available for public inspection. PVSC shall have the right to forward such request to an appropriate State or Federal agency for a determination as to whether the information submitted is in fact a "trade secret." All information shall be held confidential until a determination is made by an appropriate federal and/or state agency(ies). Also, all determinations of confidentiality will be on an item by item basis such that a determination of one part of a submittal to be public information will not open up the whole submittal. In no event, however,

shall the physical or chemical characteristics of auser's industrial waste be classified as a "trade secret".

106.2 The industrial user or his representative shall have the right to require that anyone not directly employed by PVSC sign a confidentiality agreement approved by PVSC. This agreement shall not include information concerning pretreatment facilities or discharge monitoring.

#### SECTION 107 RECONSIDERATION AND APPEAL

determination made by, or on behalf of, PVSC in implementing any of the provisions of these Rules and Regulations, may request a reconsideration of such decision, action or determination. Such request shall be in writing addressed to the Director and shall be filed with the Clerk of the PVSC within ten days of the action in dispute. The request shall set forth the action being appealed, the reasons for the appeal and the proposed alternative to such action. The Director shall review the request for reconsideration and shall grant or deny the request within 10 days of its receipt. The Director shall notify all parties of record within ten days of his decision. In the event that the Director fails to act within 10 days, the request shall be deemed to be denied.

107.2 Any person adversely affected by any action of the Director in implementing any of the provisions of these Rules and Regulations may appeal said action by filing a written notice of appeal with the Clerk directed to the Chairman of the PVSC. Said notice shall be filed within ten days of the action being challenged. It shall set forth fully the action being challenged, the grounds for the appeal and the proposed alternative action requested. Said appeal shall be accompanied by a fee of \$200.00 which shall be refunded in the event that the appeal is granted. The Chairman, or any Commissioner so designated by him, shall conduct a

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public hearing within 30 days of the filing of the request for appeal. The burden of proof shall be on the appellant, who may appear personally or through counsel and who shall have the right to present evidence and cross examine witnesses. All affected member municipalities shall be given 15 days written notice of the hearing and shall have the right to participate therein. Public notice of said hearing shall also be published as is required by law.

107.3 The Chairman or the Commissioner so designated by him shall issue a report of said hearing and a recommendation to the Commissioners for action on the appeal within 14 days after the completion of the public hearing. Said report and recommendations shall be acted upon by the Commissioners within 30 days thereafter. Such action shall be considered a final ruling on the appeal. No decision, action or determination of the Director shall be stayed by the appeal procedure authorized under this section.

## SECTION 108 PUBLICATION OF ENFORCEMENT ACTIONS

108.1 In addition to any other public participation requirements contained in 40 CFR Part 25 or its revisions, PVSC shall publish at least annually, a list of the Industrial Users which, during the previous 12 months, significantly violated applicable Pretreatment Standards or other pretreatment requirements. The list shall be published in those large daily newspapers with sufficient scope to cover the entire PVSC sewer districts.

108.2 For the purpose of this provision, a significant violation is one; which remains uncorrected 45 days after notification of non-compliance, or at the expiration of a negotiated compliance schedule, which is part of a pattern of non-compliance over a 12 month period; or which involves a failure to accurately report non-compliance.

#### PART II - SEWERAGE CONSTRUCTION AND SEWER USE

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# SECTION 201 APPROVAL OF PLANS FOR CONSTRUCTION OF CONNECTIONS

### 201.1 Direct Connection to PVSC Facility

No person, other than employees of the PVSC or persons contracted to do work for the PVSC shall connect directly to or cause to be connected directly to, or alter or cause to be altered, any PVSC owned sewer, sewage pumping station or other facility without first filing an application to construct a connection and obtaining approval of the construction plans from the Director.

This application is in addition to the Sewer Connection Application required in Section 308.

# 201.2 Connection to Municipally Owned Collection Systems

No person shall connect to or cause to be connected to, or alter or cause to be altered, any municipally owned sewer, sewage pumping plant or other facility without first obtaining approval of the sewage construction plans as required by local ordinances. A PVSC Sewer Connection Application shall be submitted as required by Section 308.

## SECTION 202 CHANGE IN USE

202.1 If a person that is not an industrial user contemplates a modification to the use of an existing sanitary sewer such that the user intends to introduce industrial wastes or discharge more than the equivalent of 25,000 gallons per day of sanitary waste, a Sewer Connection Application shall be submitted, to PVSC and, if required, a permit issued prior to the commencement of the discharge. The discharge of industrial or sanitary wastes without a Sewer Connection Permit, as stated in this section, constitutes a violation of these Rules and Regulations.

#### PART III -- REGULATIONS CONCERNING INDUSTRIAL USERS

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#### Subpart 1 Sewer Connection Permits

#### SECTION 301 SEWER CONNECTION PERMITS

301.1 Except as provided in Section 303, no industrial user shall discharge or cause to be discharged, any wastes either directly or indirectly into the PVSC Treatment Works without first obtaining a Sewer Connection Permit issued by the PVSC.

#### SECTION 302 NEW INDUSTRIAL USERS

302.1 New Industrial Users which desire to locate into the PVSC sewer district or existing Industrial Users which desire to commence operations at a new facility within the PVSC sewer district, shall apply for and receive a Sewer Connection Permit prior to the commencement of operations at the new facility. Although a Sewer Connection application may be submitted to PVSC at any time, PVSC shall issue a permit only after the user either procures title to the property or signs a lease agreement with the property owner.

## SECTION 303 EXISTING INDUSTRIAL USERS

303.1 All Industrial Users discharging wastes directly or indirectly to the PVSC Treatment Works prior to the effective date of these Rules and Regulations are hereby granted temporary authority to discharge these wastes. This temporary authority shall expire 90 days after the adoption of these Rules and Regulations unless prior to that date the discharger has filed an application for a Sewer Connection Permit pursuant to Sections 301, 306 and 308 of these Rules and Regulations. In such case, this temporary authority shall expire on the date the Sewer Connection Permit is issued.

Any person discharging pursuant to the temporary authority provided for hereby is subject to all the provisions of these Rules and Regulations and such authority may be suspended or revoked in accordance with the terms and provisions set forth in Sections 310 and 311 of these Rules and Regulations.

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SECTION 304 RENEWAL OF PERMITS

304.1 If a permittee wishes to continue discharging to the PVSC Treatment Works, he shall apply for a renewal of his Sewer Connection Permit no later than 6 months prior to the expiration date of the permit then in force. The application shall be contained in a form prepared by PVSC which will be mailed to the user no less than 9 months before the expiration date. Renewal of the permit shall be contingent upon the permittee having complied with the terms and conditions of the expired permit.

#### SECTION 305 DURATION OF PERMITS

305.1 Permits will expire as indicated in the permit (usually five (5) years). Renewal of the permit will be dependent upon compliance with the terms and conditions included in Section 304.

#### SECTION 306 CHANGES TO PERMITS

306.1 Any Industrial User that proposes to make any changes in its facility or processing which significantly affects either the quality or quantity of its discharge to the PVSC Treatment Works shall apply for an amended Permit. Forms may be procurred from PVSC.

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#### SECTION 307 TRANSFER OF PERMITS

307.1 Sewer Connection Permits are issued to a specific industrial users for a specific operation and are not transferrable. A permit shall

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not be reassigned or transferred or sold to a new owner, new industrial user, or a new or changed operation. The permittee shall notify the Director within 14 days of any change in ownership or corporate structure, who such change affects responsibility for compliance with the Rules and Regulation

# SECTION 308 PROCEDURE FOR OBTAINING A SEWER CONNECTION PERMIT

- 308.1 Persons desiring a Permit to discharge shall complete a PVSC application form and forward it to PVSC. Upon receipt of all required information, the application shall be processed and if required and upon approval, a Permit shall be issued.
- 308.2 The application shall be approved if the applicant has complied with all applicable requirements of these Rules and Regulations and furnished to the Director all requested information, and if the Director determines that there is adequate capacity in the PVSC Treatment Works to convey, treat and dispose of the industrial wastes. The Director shall issue a permit within 45 days of receipt of all required information.
- 308.3 An application submitted by a corporation shall be signed by a corporate officer or other executive officer so designated. An application signed by an individual other than a corporate officer shall include a corporate resolution granting the individual the authority to make the application on behalf of the corporation. An application submitted by an industrial user other than a corporation shall be signed by a proprietor or general partner.

#### SECTION 309 SEWER CONNECTION PERMIT CONDITIONS

- 309.1 Sewer Connection Permits shall be issued with at least the following applicable conditions:
  - a) Monitoring requirements for User Charge;
  - b) Monitoring requirements for Pretreatment:

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- c) Prohibitions and Limitations on industrial waste discharged to the sanitary sewer;
- d) Compliance schedules;

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- e) Reporting requirements;
- f) Management requirements and responsibilities;
- g) Special conditions applicable to industrial users on a case by case basis.

309.2 The terms and conditions of the permit may be subject to modification and change by the Director during the life of the permit, as limitations or requirements as identified in Sections 312 and 313 are modified and changed. The industrial user shall be informed of any proposed changes in his permit at least (30) days prior to the effective date of change. Any changes or new conditions in the permit shall include a reasonable time schedule for compliance.

#### SECTION 310 SUSPENSION OF A SEWER CONNECTION PERMIT

- 310.1 The Director may, without formal notice, suspend a Sewer Connection Permit for a period not to exceed 45 days when such suspension is necessary in order to stop a discharge which reasonably appears to present an imminent or substantial hazard to the public health, safety or welfare of persons.
- 310.2 The Director may, after serving notice on the permittee, including the opportunity to respond, suspend a Sewer Connection Permit for a period not to exceed 45 days when such a suspension is necessary in order to stop a discharge which presents or may present an endangerment to the environment or which threatens to interfere with the operation of the PVSC Treatment Works.
- 310.3 Any industrial user notified of a suspension of his Sewer Connection Permit shall immediately cease and desist the discharge of all

wastes regulated by that Permit. In the event of a failure of the industrial user to comply voluntarily with the suspension order, the Director shall take such steps as are reasonably necessary to insure compliance.

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310.4 Any suspended industrial user may file with the Director, a request for a hearing with the Commissioners. Such a request shall not stay the suspension. In the event of such request, the Commissioners shall within 14 days of the receipt by the Director of such request, hold a hearing on the suspension and shall either confirm or revoke the action of the Director. Reasonable notice of hearing shall be given to the suspended industrial user as provided for in Section 103. At this hearing the suspended industrial user may appear personally or through counsel, cross examine witnesses and present evidence in his own behalf.

310.5 In the event that the Commissioners fail to meet within the time set forth above or fail to make a determination within 72 hours after the close of the hearing, the order of suspension shall be stayed until a determination is made either confirming or revoking the action of the Director.

310.6 The Director shall reinstitute the Sewer Connection Permit upon proof of satisfactory compliance with all discharge requirements. The PVSC counsel may, upon recommendation of the Director, commence and prosecute such legal actions as may be appropriate to enforce the provisions of this Section.

# SECTION 311 REVOCATION OF A SEWER CONNECTION PERMIT

311.1 The Commissioners may revoke a Sewer Connection Permit upon a finding that the industrial user has demonstrated a refusal, inability or failure to take reasonable steps to comply with any of the provisions of these Rules and Regulations. No revocation shall be ordered until a

hearing has been held by the Commissioners, where the user shall have the right to be represented by counsel, cross examine witnesses and present evidence in his behalf. Notice of the hearing shall be given to the industrial user and to the municipality wherein the user is located, in accordance with Section 103 at least fifteen days prior to the date of the hearing.

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- 311.2 Any industrual user whose Sewer Connection Permit has been revoked shall immediately cease and desist all discharge of wastes requilated by that Permit. The Director may disconnect or permanently block from the public sewer, the connection of any industrial user whose Permit has been revoked if such action is necessary to insure compliance with the order or revocation.
- 311.2 Before the discharge of wastes may be commenced by the industrial user, he must apply for and receive a new Sewer Connection Permit, pay all charges, penalties and such other sums as may be owed. Costs incurred by the PVSC and Municipality in revoking the Permit and disconnecting the connection shall be paid by the industrial user before a new Permit is issued.

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#### Subpart 2 Pretreatment Regulations

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#### SECTION 312 PROHIBITED INDUSTRIAL WASTES

- 312.1 No person shall discharge or deposit or cause or allow to be discharged or deposited into the Treatment Works or public sewer, any waste which causes or contains the following:
  - a) Explosive Wastes. Wastes in such quantity which may create a fire or explosion hazard to the Treatment Works, collection system or to the operation of the system. Quantitative limitations on explosive wastes are specified in Appendix B.
  - b) Corrosive Wastes Wastes in such quantity which will cause corrosion or deterioration of the Treatment Works. All wastes shall have a pH not less than 5. Unless otherwise stated in the Sewer Connection Permit, all wastes shall have a pH not moretthan 10 Prohibited materials include, but are not limited to, acids, sulfides, concentrated chloride or fluoride compounds, etc.
  - c) Solids or Viscous Wastes Solids or Viscous wastes in amounts which would cause obstruction to the flow in a sewer, or otherwise interfere with the proper operation of the Treatment Works. Prohibited materials include, but are not limited to, uncomminuted garbage, bones, hides or fleshings, cinders, sand, stove or marble dust, glass, etc.
  - d) Oils and Grease (1) Any industrial wastes containing floatable fats, wax, grease or oils. (2) Any industrial wastes containing more than 100 mg/l of emulsified mineral oil or grease.
  - e) Noxious Materials Noxious or malodorous solids, liquids or gases, which in sufficient quantity either singly or by interaction with other wastes, are capable of creating a public nuisance or hazard to life, or are or may be sufficient to prevent entry into a sewer for its maintenance and repair.

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- f) Radioactive Wastes. Radioactive wastes or isotopes of such half life or concentration that they do not comply with regulations or orders issued by the appropriate authority having control ove their use and which will, or may, cause damage or hazards to the Treatment Works or personnel operating the system.
- g) <u>Interference</u>. Any waste, including oxygen demanding wastes

  (BCD etc) released in a discharge at a flow rate and/or pollutan

  concentration which an industrial user knows or has reason to know will interfere with the FVSC Treatment Works.
- h) <u>Excessive Discharge Rate</u>. Industrial wastes discharged in a slug of such volume or strength so as to cause a treatment process upset and subsequent loss of treatment efficiency.
- i) <u>Heat.</u> (1) Any discharge in excess of 150°F (65°C). (2) Heat in amounts which would inhibit biological activity in the PVSC Treatment Works resulting in a treatment process upset and subsequent loss of treatment efficiency.
- j) <u>Unpolluted waters.</u> Any unpolluted water including, but not limited to, cooling water or uncontaminated storm water, which will increase the hydraulic load on the Treatment System, except as approved by PVSC.
- k) <u>Dilution Water</u>. Any water added for the purpose of diluting wastes which would otherwise exceed applicable maximum concentration limits.
- 1) <u>Violations.</u> Wastes which cause the PVSC treatment plant to viol its NPDES Permit, applicable receiving water standards, permit regulating sludge which is produced during treatment or any othe permit issued. to PVSC.
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#### SECTION 313 CATEGORICAL PRETREATMENT STANDARDS

313.1 No person shall discharge, deposit or cause or allow to be discharged or deposited into the Treatment Works or Public Sewer, any waste which violates any Pretreatment Standard. As pretreatment standards for toxic or other hazardous pollutants are promulgated by USEPA for a given industrial category, all industrial users within that category shall conform to the USEPA timetable as well as any numeric limitations imposed by USEPA. In addition, an industrial user shall comply with any more stringent standards as determined by PVSC or other agency. Pretreatment limitations established by PVSC shall be contained in Appendix B. Changes and additions shall be made as necessary from time to time by resolution of the Commissioners as per Section 105.

## SECTION 314 UPSETS

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- 314.1 If for any reason, an industrial user does not comply with or will be unable to comply with any prohibitions or limitations contained either in these Rules and Regulations, Municipal Ordinance or the Sewer Connection Permit, the industrial user responsible for such discharge shall immediately notify the Director so that corrective action may be taken to protect the Treatment Works. In addition, a written report addressed to the Director detailing the date, time and cause of the accidental discharge, the quantity and characteristics of the discharge and corrective action taken to prevent future discharges, shall be filed by the responsible industrial user within five (5) working days of the occurrence of the noncomplying discharge.
- 314.2 An upset shall constitute an affirmative defense to an action brought for non-compliance if the following requirements are met.
  - a) The industrial user shall demonstrate through relevent evidence that:

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- 1. An upset occurred and the industrial user can identify
  the specific cause(s) of the upset; and that said cause(
  were due to circumstances reasonably beyond the control
  of the user;

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- 2. The facility was at the time being operated in a prudent and workman-like manner and in compliance with applicable operation and maintenance procedures;
- 3. The industrial user has submitted the written report described in paragraph (1) above within 5 working days
- 314.3 The industrial user seeking to establish the occurrence of an upset shall have the burden of proof.

#### SECTION 315 PRETREATMENT FACILITIES

- 315.1 A pretreatment facility or device may be required by the Director to treat or monitor industrial wastes prior to discharge to the public sewer or PVSC Treatment Works. Where pretreatment or construct necessary to control or monitor industrial wastés is required, prior to the issuance of, or as prescribed in the Permit, schematics, detailed plan and specifications, process descriptions and other pertinent data or information relating to such pretreatment facility or device shall first be filed with the Director. Such filing shall not exempt the user nor the facility from compliance with any applicable code, ordinance, rule regulation or order of any governmental authority or from these Rules and Regulations. Any subsequent alterations or additions to such pretreatment or flow-control facilities shall not be made without notice to PVSC and, where required, submission of detailed plans and specifications.
- 315.2 If inspection of pretreatment facilities and devices by authorized personnel of PVSC reveals such systems are not installed or operating in conformance with the plans and procedures submitted to PVSC,

or are not operating in compliance with the effluent limitations required by PVSC, the industrial user shall make those modifications necessary to meet those requirements. All pretreatment systems judged by the Director to require engineering design shall have plans prepared and signs by an engineer of suitable discipline. If pretreatment or control of waste flows is required, such facilities shall be maintained in good working order and operated as efficiently as possible by the owner or operator at his own cost and expense, subject to the requirements of these Rules and Regulations and all other applicable codes, orderances and provide to the requirements of these requirements and all other applicable codes, orderances and provide the requirements of these requirements and requirements of these requirements of these requirements of these requirements and requirements and requirements of these requirements and requirements and requirements of these requirements of these requirements and requirements of these requirements and requirements of these requirements of these requirements and requirements of these requirements are requirements.

#### SECTION 316 INDUSTRIAL WASTE REPORTING

- 316.1 Each industrial user shall submit a user charge quarterly self-monitoring report on forms provided by PVSC using the following schedule: first quarter, from October 1 through December 31, due January 21; second quarter, from January 1 through March 31, due April 21; third quarter, from April 1 through June 30, due July 21; and fourth quarter, from July 1 through September 30, due October 21. A report shall be submitted for each outlet as specified in the Sewer Connection Permit, and shall contain the total volume of waste discharged during the period. Individual analytical results for BOD, TSS or any other prameter as required by the Permit, shall be reported on the date that the sample was removed from the sampling device for analysis. (For example, if a sampling device drew a sample from 8:00 A.M. Monday to 8:0 A.M. Tuesday and it was removed on Tuesday for analysis, then the sample would be date Tuesday.)
- 316.2 Each industrial user whose permit requires him to submit a quarterly discharge monitoring report shall submit the neport in accord

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with the scendule d. ribed in paragraph 316.1. The Ischarge report may include, but at the discretion of the Director, shall not be limited to, nature of processes, volume, rates of flow, mass discharge emission rate, production quantities, hours or days of operation, concentrations of pollutants, or other information necessary to demonstrate compliance with applicable pretreatment limitations.

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316.3 If an industrial user fails to submit a quarterly selfmonitoring report as required by his Sewer Connection Permit, the Director
shall estimate the use for that period. These esimates may be made 30 days
after the due date of the report, except for the fourth quarter where the
estimate may be made after October 21. If a user fails to submit a quarterly
self-monitoring report and the Director estimates the usage for that period,
this estimate shall become the current year actual usage for that period and
no adjustments shall be made. In addition, no adjustments shall be made
to the next year estimated usage if the estimate is prepared using this method.

#### SECTION 317 INDUSTRIAL WASTE MONITORING

- 317.1 All industrial users who discharge or propose to discharge waste to the PVSC Treatment Works shall maintain such records as are necessary to demonstrate compliance with the requirements of these Rules and Regulations, the Sewer Connection Permit and any applicable State or Federal pretreatment standards or requirements.
- 317.2 Such records shall be made available upon request by the Director. All such records relating to compliance with pretreatment standards shall be made available to officials of NUDEP and officials of the USEPA upon demand. A summary of such data indicating the industrial user's compliance with these Rules and Regulations shall be prepared and submitted to the Director as designated in the Permit, utilizing forms contained in Appendix (C).
- 317.3 Each designated industrial user shall install, at his own cost and expense, suitable monitoring equipment to facilitate the accurate observation

sampling and measurement of industrial wastes. Such equipment shall be kept safe, secure from unauthorized entry or tampering and accessible at all time.

317.4 An industrial user who claims a lower discharge volume than is indicated by his water consumption, due to; retention of water in his PRIV product, discharge to a storm sewer, river or ditch, a higher evaporation rate than is allowed by PVSC or for other reasons, shall provide PVSC with an acceptable method for accurately determining his discharge volume to the sanitary sewer. An industrial user with more than one discharge point to the sanitary sewer shall provide PVSC with accurate discharge volumes for each outlet. In the event that PVSC determines that said volumes are not accurate, the Director may require the installation of flow measuring equipment.

317.5 When more than one industrial user can discharge into a common sewer, the Director may require installation of separate monitoring equipment for each industrial user. When there is a significant difference in waste water constituents and characteristics produced by different operations of a single industrial user, the Director may require that separate monitoring facilities be installed for each separate discharge.

# SECTION 318 COMPLIANCE DETERMINATION

- 318.1 Compliance determinations with respect to any Permit Prohibitions and Limitations may be made on the basis of instantaneous grab samples, sequential samples or composite samples. Sequential or composite samples may be taken over a 24 hour period, or over a longer or shorter time span, as deemed necessary by the Director, to meet the needs of specific circumstances.
- 318.2 PVSC may inspect the monitoring facilities of any industrial user to determine compliance with the requirements of these Rules and Regulations as specified in Section 104.

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#### SECTION 319 ANALYSIS OF INDUSTRIAL WASTES

319.1 Laboratory analysis of industrial waste samples shall be performed

in accordance with the current edition of "Standard Methods", "Methods for Chemical Analysis of Water and Waste", published by the U.S. Environmental Protection Agency or the "Annual Book of Standards, Part 23, Water, Atmospheric Analysis" published by the American Society for Testing and Materials. PRIVILES Analysis of those pollutants not covered by these publications shall be performed in accordance with procedures established by the NUDEP or other applicable agency.

#### SECTION 320 FREQUENCY OF SAMPLING AND ANALYSIS

- 320.1 Industrial wastes shall be sampled and analysed by the user for the User Charge and where required, pretreatment. The frequency of the sampling and analysis shall be specified in the Sewer Connection Permit and will vary, based on the quantity and quality of wastes discharged, as well as other factors which the Director deems appropriate.
- 320.2 If a permittee analyses his industrial wastes for parameters not required in the Permit or at a greater frequency than specified in the permit, these results shall also be included in the periodic monitoring reports submitted to PVSC.

#### PART IV - USER CHARGE

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#### SECTION 401 USER CLASSES

401.1 The following user classes are established in accordance with Federal Regulations: Industrial, Large Commercial, Tax Exempt and Residential/Small Commercial, PVSC reserves the right to change the class of any user as conditions warrant. See Appendix (A) for specific definitions.

#### SECTION 402 BILLING AND COLLECTION RESPONSIBILITIES

- 402.1 In order to fulfill its responsibilities under the User Charge System, PVSC shall:
  - a) Collect usage data for Industrial, Large Commercial and Tax Exempt Users and municipalities;
  - b) Determine the total assessment for each municipality includi the amounts to be collected through ad valorem taxation and direct billing;
  - c) Prepare invoices to bill each municipality for it's total assessment:
  - d) Develop and maintain data necessary to calculate charges and prepare invoices for each Industrial, Large Commercial and Tax Exempt User to assist municipalities in their billing and collection:
  - e) Establish procedures for the billing and collection of the total charge from each municipality; and
  - f) Monitor the municipal billing and collection procedures to ensure that User charges are properly billed and collected.
  - 402.2 In order to fulfill its responsibilities under the User

# Charge System, each participating municipality shall:

- a) Include the ad valorem portion of the User Charge assessment either in the development of local tax rates, or in its own approved direct billing system;

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- b) Notify PVSC of any new or changes in identification for Industriai, Large Commercial or Tax Exempt Users.
- c) Establish and implement procedures for the billing and collection of the applicable charges from each Industrial, Large Commercial and Tax Exempt User.
- d) Remit total municipal assessment to PVSC.
- e) Submit listings of deliquent Industrial, Large Commercial and
  Tax Exempt Users to PVSC on a timely basis; and
- f) Make records available to PVSC for compliance reviews.

#### SECTION 403 CALCULATION OF USER CHARGES

- 403.1 Except for those municipalities that have adopted an alternative method, the User Charge for the Residential/Small Commercial Class shall be based on the assessed valuation for the property as maintained in the applicable municipal tax records. Each municipality may, with the prior approval of PVSC, adopt an alternate method, such as direct billing, provided it complies with applicable Federal and State regulations.
- 403.2 The user charge for the Industrial Users shall be based on the user's actual volume and strength contribution to the PVSC Treatment Works during each measurement year. Strength shall be determined by the Total Suspended Solids (TSS) and 5 day Biochemical Oxygen Demand (BOD5) analytical temethods. Where the Director determines that an alternative method is necessary, other test methods will be employed to determine the equivalent BOD. A direct billed user shall also receive a credit for any Ad Valorem

tax which may be paid as follows: In those municipalities which collect user charges from Residential/Small Commercial Users through Ad Valorem taxes, Industrial and Large Commercial Users will pay a portion of their user charge through their Ad Valorem taxes. In these municipalities the direct billed user will receive a credit against the user charge for payments included in his Ad Valorem taxes.

- 403.3 The user charge for the Large Commercial Users shall be base on the user's actual volume discharged during each measurement year, and residential strength standards as determined periodically by the Director.
- 403.4 Each non-industrial tax exempt user shall be placed in one four classes based on volume for the purpose of determining their user charge. The user charge for the largest class shall be based on the user's actual volume discharged, and residential strength standards for BOD and TSS, as determined periodically by the Director. Actual volume shall be determined by the volume consumed during the measurement year, as closel as can be reasonably determined.
- 403.5 The user charge for the remaining three tax exempt classes shall be based on the average volume consumed by a representative number of users within that class. Residential strength standards, as determined periodically by the Director, shall be used to determine the BOD and TSS contribution. All tax exempt users in each of these three classes shall receive the same user charge. Users shall be moved from one class to another based on actual volume data as determined by the Director.

The Director shall review the average volume consumed data every two years and recommend adjustments to the average volume consumed figures. The Commissioners, shall, by resolution every two years, set volume standards to apply to each of the four classes of non-industrial, tax exempt users.

# SECTION 404 PAYMENT OF USER CHARGES

- 404.1 PVSC shall calculate the User Charges to be paid by the direct billed users as follows:
  - a) The user charge shall be estimated in advance for each calendar year;
  - b) The estimated user charge shall be modified by any adjustments from the prior year (except in the first year of the implementation of the User Charge System);
  - c) During each measurement year industrial and other designated users shall submit quarterly self-monitoring reports to PVSC.

    These reports will provide data to enable PVSC to calculate the actual usage for that measurement year. This will also apply where PVSC calculates the actual usage because a user fails to supply the self-monitoring report;
  - d) The current year actual usage shall be compared to the current year estimated usage and any difference shall result in an adjustment to that year and be applied to the next year's estimated usage as explained in (b) above.
- 404.2 PVSC shall prepare invoices and mail to each municipality twice a year, one in January with full payment due in 30 days, and the other in June, with full payment due July 1. Each municipality shall remit to PVSC the entire charge. The collection from each user within the municipality shall be the responsibility of that municipality.

404.3 Municipalities shall not modify the PVSC portion of the User

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# PART V—ADMINISTRATION

#### SECTION 501 AUTHORITY, VIOLATIONS, PENALITIES AND CIVIL LIABILITY

- 501.1 These Rules and Regulations are adopted pursuant to N.J.S. 58:14-35 and appropriate Federal Statutes and Municipal Ordinances.
- 501.2 Any violation of these Rules and Regulations including the failure to pay fees, charges, or surcharges imposed, or any conditions or limitation of a permit issued pursuant thereto shall be subject to such penalties as are provided by law. Said penalties shall be in addition to any sanctions authorized under these Rules and Regulations.
- 501.3 In addition to such panalties as may be provided by law, any person violating these Rules and Regulations shall be civilly liable for such damages as may result to the PVSC as a result of said violation.
- 501.4 Notwithstanding any other provisions of these Rules and Regulations, any Industrial, Tax Exempt or Large Commercial user who fails to comply with these Rules and Regulations shall be liable to a fine in an amount not to exceed \$50 per day for each day or part thereof that such violation exists up to a maximum of \$5000, except that any industrial user who fails to submit a quarterly self-monitoring report when due shall be liable to a fine in an amount not to exceed \$100 per day for each day or part thereof that such violation exists up to a maximum of \$5000.

#### SECTION 502 SAVINGS CLAUSE

502.1 If any provision, paragraph, word, section or article of these Rules and Regulations is invalidated by any court of competent juridiction; the remaining provisions, paragraphs, words, sections and articles shall not

Charge assessed to an individual user. The Directr shall have the right to review municipal records to insure that proper collections are being made. Records shall be maintained for at least three years.

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# SECTION 405 CHANGE OF USER CLASS

- 405.1 In order for each municipality to keep PVSC informed of all new or changed users, the following shall be submitted to PVSC in a timely manner:
  - a) Name and address;
  - b) Name and telephone number of the contact official;
  - c) Times when facility is open and when contact official is present.

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be affected continue in full force and effect.

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## SECTION 503 CONFLICT

503.1 All Rules and Regulations and parts thereof inconsistent or conflicting with any part of these Rules and Regulations are hereby repealed to the extent of such inconsistency or conflict.

#### SECTION 504 EFFECTIVE DATE

on the 12 day of Aug ust , 1982, and supersede those Rules and Regulations previously approved by PVSC. A certified copy of these Rules and Regulations shall be filed with the Municipal Clerk of each participating Municipality.

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#### APPENDIX A - DEFINITIONS

# PRIVILEGED

The definitions given in this part shall be used in the interpretation of these Rules and Regulations, issuance of Permits, the making of charges for service and all other operations of these Rules and Regulations unless another meaning for the word is apparent from the context.

- "ABSOLUTE LEL VALUE" \_\_ means the concentration of a particular combustible substance with 100% being the Lower Explosive Limit (LEL) of that substance.
- "ACT" means the Federal Clean Water Act (33 U.S.C. 1251 et seq), as amended.
- "AD VALOREM TAX" means the tax levied for the benefit of a person on the assessed value of property owned.
- "ALICUOT" means a smaller sample removed from a larger sample which is totally representative of that larger sample.
- "ASSESSED VALUE" means that portion of the total value of the property upon which individual municipal taxes are levied.
- "ASIM TEST METHOD" means test procedure as contained in the publication "Annual Book of Standards, Part 23 Water Atmospheric Analysis" published by the American Society for Testing and Materials.
- "BIOCHEMICAL OXYGEN DEMAND" (5 DAY) (8005) means the quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedure contained in Standard Methods in five (5) days at 20C, expressed in terms of weight and concentration (miligrams per liter).
- "CHIEF EXECUTIVE OFFICER" means the CEO for PVSC or his designee.

- "CHIEF ENGINEER" means the Chief Engineer of the Passaic Valley
  Sewerage Commissioners or his agent or representative.
- "COMBUSTIBLE" means capable of igniting and burning.
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- "COMPATTELE POLLUTANT" means biochemical oxygen demand, suspended solids, pH, fecal coliform bacteria, plus additional pollutants identified in PVSC's NPDES Permit, if the Treatment Works is designed to treat such pollutants and in fact, does remove such wastes to a substantial degree.
- "COMPOSITE SAMPLES" means those samples that are made up of a series of small individual samples obtained at regular intervals over the entire discharge day. The volume of each sample shall be proportional to the discharge flow rate.
- "CONTACT OFFICIAL" means an employee or officer of a user who has knowledge of the facility and who will normally be contacted first regarding matters contained in these Rules and Regulations.
- "COOLING WATER" means the water discharged from any use such as air conditioning, cooling or refrigeration, during which the only pollutant added to the water is heat.
- "DIRECTOR" means the Executive Director of the Passaic Valley Sewerage

  Commissioners or his agent or representatives.
- "DISCHARGER" means any person that discharges or causes a discharge to a public sewer.
- "DOMESTIC SANITARY WASTES" means liquid wastes, (1) from the noncommercial preparation, cooking and handling of food or (11) containing
  human excrement and similar matter from the sanitary conveniences
  of dwellings, commercial buildings, industrial facilities and
  institutions.
- "EPA" means the United States Environmental Protection Agency.

- "Methods for Chemical Analysis of Water and Waste" published by
  the U. S. Environmental Protection Agench.

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- "FACILITY" means the geographically continuous property owned or leased by the user which may be divided by public or private right (s) of way. Geographically non-continuous property, owned or leased by the user but connected by a right of way which the user controls and to which the public does not have access, shall be considered as one facility.
- "FLAMMARIE" -- means easily ignitable and capable of burning with great rapidity.
- "GARBAGE" means solid wastes from the domestic and commercial preparation, cooking and dispensing of food, and from the handling, storage and sale of food.
- "IMMEDIATE ACCESS"- means access without delay but in no event beyond 10 minutes from the time the request is made known to any guard or employee of the user.
- "INCOMPATIBLE POLLUTANT" means any pollutant which is not a compatible pollutant as defined in this appendix.
- "INDUSTRIAL USER"- means any non-governmental, non-residential user which discharges more than the equivalent of 25,000 gallons per day of domestic sanitary wastes and which is identified in the Standard Industrial Classification Manual under Divisions A, B, D, E or I; or which discharges toxic pollutants into the PVSC Treatment Works.
- "INDUSTRIAL WASTE" means the liquid wastes resulting from the processes employed in industrial, manufacturing, trade or business establishments, or from the development, recovery, detoxification or processing of natural resources or other wastes as distinct from domestic sanitary wastes.

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- "PRETREATMENT" means a reduction in the amount or elimination of pollutants, or the alteration of the nature of pollutant properties in industrial wastes prior to the discharge of such wastes into the PVSC Treatment Works, whether such reduction, elimination or alteration is obtained by physical, chemical or biological processes, process changes or other means.
- "PRETREATMENT STANDARDS"- means all applicable Federal Rules and Regulations implementing Section 307 of the Act, as well as any non-conflicting State, PVSC or local standards. In cases of conflicting standards or regulations, the more stringent thereof shall be applied.
- "PROPERTY CWNER"- means the record title holder of the property wherein the industrial user is located.
- "FUBLIC SEWER"- means any sewer dedicated to public use and whose use is controlled by a public corporation.
- "PVSC" means the Passaic Valley Sewerage Commissioners.
- "RESIDENTIAL/SMALL COMMERCIAL USER" means any user (except an industrial, large commercial or tax exempt user) that discharges the equivalent of 25,000 gallons or less per day of domestic waste.
- "SECUENTIAL SAMPLES" means those samples gathered over an operating day, that are composed of a series of short time period samples, each of which is held in an individual container. Each individual container may itself, however, contain a composite sample.
- "SEWER CONNECTION APPLICATION" means a long or short form to be filed with the Passaic Valley Sewerage Commissioners by an industrial user or other user if requested by the Chief Engineer.
- "SEWER CONNECTION PERMIT" means a permit issued by the Chief Engineer
  to an industrial user, which authorizes the discharge of wastes to
  the sanitary sewer, subject to the conditions contained therein.

- "INTERFERENCE" means the inhibition or disruption of the PVSC sewer system, treatment process or operation which causes or significantly contributes to a violation of any requirement of its NPDES permit.
  - PRIVILEG
- "LARGE COMMERCIAL USER" means any non-governmental, non-residential user (except an Industrial or Tax Exempt User) which discharges more than the equivalent of 25,000 gallons per day of domestic sanitary waste.
- "LEL" means the lowest concentration of a combustible substance in air through which a flame, once ignited, will continue to propagate.

  (Lower Explosive Limit).
- "MEASUREMENT YEAR" means, for the purpose of calculating User Charges, the period from October 1 of each year through September 30 of the following year.
- "MUNICIPALITY" means the local governmental unit wherein the industrial user is located.
- "NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)" means the

  Federal Program, under the Federal Water Pollution Control Act

  Amendments, Clean Water Act and other acts, for issuing, conditioning

  and denying permits for the discharge of pollutants from point sources

  into the navigable waters, the contiguous zone and the oceans, pur
  suant to section 402 of the Act.
- "NJDEP" means the New Jersey Department of Environmental Protection.
- "PERSON" means any individual, firm, company, partnership, corporation, association, group or society and includes the State of New Jersey and agencies, districts, commissioners and political subdivisions created by or pursuant to State Law.
- "pH" means the logarithm of the reciprocal of the concentration of hydrogen ions in grams per liter of solution.

- SHALL" AND "MAY"- "shall" is mandatory and "may" is permissive.
- "SLUG DISCHARGE" means the discharge of industrial wastes or any constituents thereof to the PVSC Treatment Works in such quantity PRIVILE that the average hourly discharge over any period of two hours duration is more than twice the daily average hourly discharge of industrial wastes or constituents thereof.

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- "STANDARD METHODS" means test procedure as contained in the publication "Standard Methods for the Examination of Water and Wastewater" prepared and published jointly by the American Public Health Association, American Water Works Association and the Water Pollution Control Federation.
- "TAX EXEMPT USER" means any user (except large commercial and industrial)
  which pays no Ad Valorem taxes or which receives substantial credits
  in paying such taxes. Publicly owned facilities which perform local
  governmental functions and discharge solely domestic wastes are
  excluded.
- "TOTAL SUSPENDED SOLIDS" means the insoluble solid matter suspended in wastewater that is separable by laboratory filtration in accordance with the procedure contained in Standard Methods.
- "TOXIC POLITIANT" means one of the pollutants so designated by USEPA and NJDEP. This list of pollutants is subject to change from time to time by USEPA or NJDEP.
- "TREATMENT WORKS" means any devices, facilities, structures, equipment or works owned or used by the PVSC for the purpose of the transmission, storage, treatment; recycling and reclamation of industrial and domestic wastes, or necessary to recycle or reuse water including intercepting sewers, outfall sewers, sewage collection systems, pumping, power and other equipment, and their appurtenances; extensions, improvements, remodeling, additions and alterations

thereof; elements essential to provide a reliable recycled supply such as standby treatment units and clear well facilities; and any works, including site acquisition of the land that will be an integral part of the treatment process or is used for ultimate disposal of residues resulting from such treatment.

- "UNCONTAMINATED STORM WATER" means flow occurring during or immediately following any form of natural precipitation and resulting therefrom which does not contain any pollutants limited or prohibited by the effluent standards in effect.
- "UPSET" means an exceptional incident in which there is unintentional and temporary non-compliance with technology-based pretreatment standards because of factors beyond the reasonable control of the Industrial User. It does not include non-compliance to the extent caused by operational error, improperly designed or inadequate pretreatment facilities, lack of preventive maintenance, or careless or improper operation.

"USEPA" - means the United States Environmental Protection Agency.

- "USER CHARGE" means a charge levied on users of the PVSC Treatment Works, or that portion of the Ad Valorem taxes paid by a user, for the user's proportionate share of the cost of operation and maintenance (including replacement).
- "WASTES" means either domestic sanitary wastes or industrial wastes or both.

# APPENDIX B

# PRETREATMENT LIMITATION #1

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# INTERIM MERCURY PRETREATMENT REGULATIONS

PVSC regulation concerning the discharge of mercury into the PVSC Treatment Works is as follows:

All persons discharging industrial waste directly or indirectly to the PVSC Treatment Works shall meet the following minimum standards concerning the content of mercury discharge:

The discharge of industrial wastes containing mercury into the PVSC Treatment Works is prohibited unless such discharge began prior to March 1, 1981, or a permit to discharge was issued prior to March 1, 1981. Trace quantities of mercury which are present in the intake water shall be exempt from this prohibition.

Any person permitted to discharge mercury into the PVSC treatment works under paragraph one above shall be prohibited from increasing the amount of mercury discharged at any time in the future.

No person shall discharge industrial wastes containing mercury into the PVSC treatment works from any new or modified process where permission to discharge is granted under paragraph one.

If a process, resulting in a permitted discharge of mercury as granted under paragraph one is terminated, this quantity of mercury shall not be applied as a credit to increase the discharge of mercury from any other process. Users permitted to discharge mercury under this regulation shall be subject to a limitation of 0.40 pounds per day.

Users who must pretreat to meet the limitations contained in this regulation shall achieve compliance by December 31, 1981.

Where because of extraordinary conditions the strict application of this regulation would result in practical difficulties to or exceptional hardship upon the industrial user, the Commissioners may in their discretion grant a variance from such strict application to the extent necessary to relieve such difficulties or hardship. Such variance, however, shall not be granted unless there is a specific finding by the Commissioners that such relief can be granted without substantial detriment to the public good

or without causing PVSC to violate its NPDES permit or any other permits or regulations required by NJDEP or USEPA.

PVSC shall require actual or potential dischargers of mercury to conduct an initial three (3) month monitoring program. This program shall begin one (1) month after adoption of this regulation. PVSC shall inform the industrial users of their individual monitoring requirements by separate correspondence. The provisions contained in this regulation shall be automatically incorporated in each applicable sewer connection permit when issued. Failure to comply with these monitoring provisions may result in a denial of a permit, revocation of an existing permit, or termination of sewer service.

The frequency of monitoring will generally follow the schedule listed below. However, PVSC reserves the right to modify the schedule on a case by case basis.

- a) Users that discharge 0.20 lbs. or more of mercury on any day:
   analyze a representative daily composite sample of industrial waste for mercury twice per week for 13 consecutive weeks.
- b) Users that discharge 0.02 lbs. or more, but less than 0.2 lbs. of mercury on any day: analyze a representative daily composite sample for mercury once each week for 13 consecutive weeks.
- c) Users that discharge less than 0.02 lbs. of mercury on any day: analyze a representative daily composite sample for mercury twice a month for 3 consecutive months.
- d) A one quart aliquot of each sample to be analyzed shall be acidified to a pH of 2 or less with concentrated nitric acid, and shall be set aside for PVSC. When the next scheduled sample is taken, the previous aliquot may be discarded if PVSC has not picked it up.

| NAME               |                                      |   |                     |       |         | •                       |                   |         |          |          |                |  |
|--------------------|--------------------------------------|---|---------------------|-------|---------|-------------------------|-------------------|---------|----------|----------|----------------|--|
| ADDRESS_           |                                      |   |                     |       |         |                         |                   |         |          |          |                |  |
|                    |                                      |   |                     |       |         |                         | PERMIT NUMBER     |         |          |          |                |  |
| FACILITY           | LOCATION                             | ····  |                     |       |         |                         | <del> </del>      |         |          |          |                |  |
|                    |                                      |   |                     |       |         |                         | MONITORING PERIOD |         |          |          |                |  |
| •                  |                                      |   |                     |       |         | FROM                    | DATE              | МО      | YEAR     | TO DATE  | MO YEA         |  |
| PARAMETER & NUMBER |                                      | QUANT   | QUANTITY OR LOADING |       |         | ALITY OR CONCENTRATION  |                   |         |          | FREQ.    | Sample<br>Type |  |
|                    |                                      | AVERAGE   | MAXIMUM             | UNITS | MINIMUM | AVERA                   | GE                | MAXIMUM | UNITS    | ANALYSIS |                |  |
|                    | Sample<br>Measurement                |   |                     |       |         |                         |                   |         |          |          |                |  |
|                    | PERMIT<br>REQUIREMENT                |   |                     |       |         |                         |                   |         |          |          |                |  |
|                    | Sample<br>Measurement                |   |                     |       |         |                         |                   |         |          |          |                |  |
|                    | PERMIT<br>REQUIREMENT                |   |                     |       |         |                         |                   |         |          |          |                |  |
|                    | Sample<br>Measurement                | •   |                     |       |         |                         |                   |         |          |          |                |  |
|                    | PERMIT<br>REQUIREMENT                |   |                     |       |         |                         |                   |         |          |          |                |  |
|                    | Sample<br>Measurement                |   |                     |       |         | 832/8016337             |                   |         |          |          |                |  |
|                    | PERMIT<br>REQUIREMENT                |   |                     |       |         | 1                       | 1                 |         | i        |          |                |  |
|                    | SAMPLE<br>MEASUREMENT                |   |                     |       |         |                         |                   |         |          |          | ·              |  |
|                    | PERMIT<br>REQUIREMENT                |   |                     |       |         |                         |                   |         |          |          |                |  |
|                    | SAMPLE<br>MEASUREMENT                |   |                     |       |         |                         |                   |         |          |          |                |  |
| 1                  | PERMIT<br>REQUIREMENT                |   |                     |       |         |                         |                   |         |          |          |                |  |
|                    | IDE FOR COMMENTS<br>F ANY VIOLATIONS | 1   |                     | ·*·   |         |                         |                   |         |          | 1        |                |  |
| PVSC FORM MR-      | SIGNA                                | SIGNATURE OF PRINCIPAL<br>EXECUTIVE OR AUTHORIZED AGENT |                     |       | TYPE N  | TYPE NAME AND TITLE TEL |                   |         | HONE NO. | DATE     |                |  |

TYPE NAME AND TITLE

TELEPHONE NO.

DATE

: PVSC Form MR-2 Rev. 1, 9/81

OR AUTHORIZED AGENT

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316.4 All industrial users subject to Federal Categorical Pretreatment Standards shall, at a minimum comply with the reporting requirements contained in 40 CPR 403.12 and subsequent revisions, including, but not limited to, Baseline Monitoring Reports, Compliance Progress Reports, Compliance Date Reports and Periodic Self-Monitoring Reports.

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CHANGE 1 - 4/28/83

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### RECORD OF CHANGES

Rules and Regulations concerning discharges to the PVSC Treatment Works.

| Effective Date | Date Entered   | Remarks        |
|----------------|----------------|----------------|
| April 28, 1983 |                |                |
|                |                |                |
| <u> </u>       |                |                |
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| •              |                |                |
|                |                |                |
|                |                |                |
|                | April 28, 1983 | April 28, 1983 |

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CHANGE NOTICE TO RULES AND REGULATIONS CONCERNING DISCHARGES TO THE PASSAIC VALLEY SEWERAGE COMMISSIONERS TREATMENT WORKS.

(1) DELETE THE WORD. "DIRECTOR" WHERE APPEARING AND SUBSTITUTE THE WORD "CHIEF EXECUTIVE OFFICER".

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-1634 Gateway 235-3846 August 26, 1983 Newark Sewage Sampler Easement

#### 1643 GATEWAY

D. H. Posy

cc: R. E. Wills, Jr., 1633 Gateway

As we discussed, the subject easement was requested by Westinghouse from the City of Newark so that the Newark plant could install part of a sewage sampler system beneath a city sidewalk in a city sewer. The plant is required to sample its industrial wastewater discharged to the Passaic Valley Sewage Authority. Plant personnel wanted to be able to sample the discharge from three points at a single point where they combined. However, the flows do not combine on Westinghouse property; rather, they meet in the city sewer. Therefore, we obtained an easement from the City to install and operate a sampler system. As a condition of the easement, Westinghouse was required to indemnify the City from any claim arising from the granting of the privilege or by reason of the installation, location or maintenance of the existence of the system. Attached is a copy of the easement indenture, the ordinance granting the easement and the hold harmless and indemnification agreement.

The system includes an automatic sampler inside the plant and an underground galvanized conduit containing a sampling hose running from the plant about 20 feet to a city manhole. The system includes seals to prevent gas from entering the plant and all electrical components are located within the plant. Samples are obtained through a vacuum purge system and a sample is drawn through the sampling hose to the sampler inside the building.

I talked with Glenn Grant of the Newark Law Department regarding the possible termination of the easement prior to Westinghouse's sale of the Newark facility. Although he did not know the specific procedural steps for such termination he anticipates no problem. He recommends that Westinghouse write

D. R. Posy August 26, 1983 Page -2

PRIVILEGED

a letter to Newark if and when we wish to terminate the easement. There probably would have to be a document filed cancelling the easement indenture which has been filed with the Essex County Register's office.

If you have any questions, I will be glad to be of assistance.

Muchele M. Butman

Michele M. Gutman Counsel

MMG:paj:1816C

Attachments

# **Exhibit B**Westinghouse Electric Corporation

#### WHOLLY AND PARTIALLY OWNED SUBSIDIARIES OF WESTINGHOUSE ELECTRIC CORPORATION JULY, 1996

| SUBSIDIARY  | % OWNED<br>BY PARENT |
|---|----------------------|
| Aws Ansaldo (W) Service, SPA (Italy)                                | 49.00                |
| Bay County Energy Systems, Inc. (Delaware)                          | 100.00               |
| Bay Resource Management, Inc. (Delaware)                            | 100.00               |
| Bonneville Wind Corporation (Utah)                                  | 100.00               |
| Catv Enterprises, Inc.* (New York)                                  | 100.00               |
| Central Fidelity Insurance Company (Vermont)                        | 100.00               |
| Adept Technologies (California)                                     | 50.00                |
| Comdata Holdings Limited (United Kingdom)                           | 0.00                 |
| Commercial Union Leasing Corporation                                | 0.00                 |
| Mojave Cogeneration Company, L.P.* (Delaware)                       | 80.00                |
| Communities IP Holdings, Inc. (Delaware)                            | 100.00               |
| Communities LP Holdings, Inc. (Delaware)                            | 100.00               |
| Computerized and Advanced Technologies Company* (Pennsylvania)      | 50.00                |
| Contadores Electrico S.A. (Ecuador)                                 | 19.00                |
| Corporate Fleet Leasing Company, Inc. (Delaware)                    | 100.00               |
| Dalian Refrigerator Works   | 0.00                 |
| Thermo King Dalian Transport Refrigeration Company, Limited* (Prc)  | 25.00                |
| Delaware Resource Management, Inc. (Delaware)                       | 100.00               |
| Delki Van (India)   | 0.00                 |
| Dutchess Resource Management, Inc. (Delaware)                       | 100.00               |
| Eagle Crossing Corporation (Idaho)                                  | 0.00                 |
| Enhanced Building Services, Inc. (Delaware)                         | 100.00               |
| Mojave Cogeneration Company, L.P.* (Delaware)                       | 18.00                |
| Enwesa Servicos, S.A. (Spain)                                       | 50.00                |
| Fauske And Associates, Inc. (Illinois)                              | 100.00               |
| First Hotel Investment Corporation (Delaware)                       | 100.00               |
| First Westinghouse Capital Corporation (Delaware)                   | 100.00               |
| Rocky Mount Town Centre Associates, Limited Partnership* (Delaware) | 51.00                |
| Fortin Industries, Inc. (Delaware)                                  | 100.00               |
| Gateway Fleet Company (Pennsylvania)                                | 100.00               |
| Group W Broadcasting, Inc.* (Delaware)                              | 100.00               |
| Group W Investments, Inc.   | 100.00               |
| Westinghouse Pictures, Inc. * (Delaware)                            | 100.00               |
| Group W Cable Of Chicago, Inc. (Illinois)                           | 100.00               |
| Group W Radio Subsidiary Of California, Inc., (California)          | 100.00               |
| Grundstucks-Verwaltungs-Gessellschaft Genfer Strade mbH (Germany)   | 100.00               |

LAW2:12516

| SUBSIDIARY  | % OWNED<br>BY PARENT |
|---|----------------------|
| Home Team Sports Limited Partnership (Delaware)                     | 100.00               |
| Infrared Fiber Systems, Inc. (Delaware)                             | 48.00                |
| Innovative Computing Corporation* (Oklahoma)                        | 100.00               |
| Integrated Power Corporation (Maryland)                             | 100.00               |
| Ipc-Australia Pty. Ltd. (Australia)                                 | 100.00               |
| IPC Ltd. (Papua New Guinea)   | 100.00               |
| ITI Howats Incorporated (Delaware)                                  | 100.00               |
| Jafco - Ltd. Partnership  | 2.77                 |
| Knoll International Japan Ltd.* (Japan)                             | 34.59                |
| O'Connor Combustor Corporation (California)                         | 100.00               |
| PCI Energy Services, Inc. (Illinois)                                | 100.00               |
| Peak FSC, Ltd. (Bermida)  | 100.00               |
| PW Services Inc. (Washington)                                       | 100.00               |
| Powerserve International, Inc. (Delaware)                           | 100.00               |
| Precision Rebuilders, Inc. (Delaware)                               | 100.00               |
| Rocky Mount Town Associates   | 100.00               |
| Rocky Mount Town Centre Associates, Limited Partnership* (Delaware) | 49.00                |
| Safe Sites of Colorado L.L.C. (Delaware)                            | 65.00                |
| San Juan Resource Management, Inc. (Delaware)                       | 100.00               |
| Servicos Industriales Westinghouse C.A. (Venezuela)                 | 49.00                |
| Seven-Up Bottling Co. Of Visalia (California)                       | 100.00               |
| Ship House, Inc. (Florida)  | 100.00               |
| Siam Toracato De Tella, Ltd. (Uraguay)                              | 5.90                 |
| Terra Neva Energy Corporation (Delaware)                            | 100.00               |
| The Scientific Ecology Group, Inc. (Tennessee)                      | 100.00               |
| Hittman Transport Services, Inc. (Delaware)                         | 100.00               |
| SEG Colozado, Inc. (Delaware)                                       | 100.00               |
| SEG Equity Holdings, Inc. (Delaware)                                | 100.00               |
| Gregory Environmental Systems, L.P. (Delaware)                      | 20.00                |
| SEG Wevada, Inc. (Delaware)   | 100.00               |
| Thermo King Corporation (Delaware)                                  | 100.00               |
| Tsc, Inc. (Ohio)  | 100.00               |
| Allied Media Technology, Inc. (California)                          | 100.00               |
| Turbinas I Generadores Turgenca C.A. (Venezuela)                    | 49.00                |
| Two Productions, Inc.* (Delaware)                                   | 100.00               |
| Vektron S.A.* (Mexico)  | 24.50                |
| Village Power Corporation (Delaware)                                | 100.00               |

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| SUBSIDIARY  | % OWNED<br>BY PARENT |
|---|----------------------|
| W-F Productions, Inc. (Delaware)  | 100.00               |
| Waste Resource Energy, Inc. (Delaware)                                  | 100.00               |
| We Bottling Corporation (Delaware)                                      | 15.00                |
| WBCE, INC. (New York)   | 100.00               |
| WCC FSC I, Inc. (Delaware)  | 100.00               |
| WCC FSC III, INC. (US Virgin Islands)                                   | 100.00               |
| WCC FSC IV, Inc. (US Virgin Islands)                                    | 100.00               |
| WCC FSC IX, Inc. (US Virgin Islands)                                    | 100.00               |
| WCC FSC V, Inc. (Bermida)   | 100.00               |
| WCC FSC VIII, Inc. (US Virgin Islands)                                  | 100.00               |
| Wcc Project Corp. (Delaware)  | 100.00               |
| Wcc Soledad I, Inc. (Delaware)  | 100.00               |
| Wcc Soledad II, Inc. (Delaware)   | 100.00               |
| Wesdyne International, Inc. (Delaware)                                  | 100.00               |
| Wesgen, Inc. (Delaware)   | 100.00               |
| Mojave Cogeneration Company, L.P.* (Delaware)                           | 2.00                 |
| West Controls, Inc. (Delaware)  | 100.00               |
| West Valley Muclear Service Company, Inc. (Delaware)                    | 100.00               |
| Westinghouse (New Zealand) Ltd. (New Zealand)                           | 100.00               |
| Westinghouse Airships, Inc. (Delaware)                                  | 100.00               |
| Westinghouse Surveillance Systems Limited* (United Kingdom)             | 90.00                |
| Westinghouse Anlagenbau, GmbH (Germany)                                 | 100.00               |
| Westinghouse Anniston Environmental Operations Company, Inc. (Delaware) | 100.00               |
| Westinghouse Audio Intelligence Devices, Inc. (Delaware)                | 100.00               |
| Westinghouse Beverage Group, Inc. (Delaware)                            | 100.00               |
| Westinghouse Canada, Inc. (Canada)                                      | 100.00               |
| 913514 Ontario Inc. (Ontario, Canada)                                   | 100.00               |
| 177172 Canada Inc. (Canada)   | 100.00               |
| Auprocon Limited/Limitee (Ontario, Canada)                              | 100.00               |
| B. F. Sturtewant Canada, Inc. (Canada)                                  | 100.00               |
| Electrics, Inc. (Canada)  | 100.00               |
| Quantum Inspection and Testing Limited (Ontario)                        | 100.00               |
| Wescan Europe Limited (Ireland)   | 100.00               |
| Westinghouse Overseas Projects Company Inc. (Ontario)                   | 100.00               |
| Westinghouse CBS Holding Company, Inc. (Delaware)                       | 100.00               |
| CBS Inc. (New York)   | 100.00               |
| Westinghouse Communication Services, Inc. (Delaware)                    | 100.00               |

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| SUBSIDIARY  | % OWNED<br>BY PARENT |
|---|----------------------|
| Westinghouse Communications, Inc. (Delaware)                                | 100.00               |
| Harbinger Edi Services, Inc. (Georgia)                                      | 17.50                |
| Westinghouse Communications Software, Inc. (Delaware)                       | 100.00               |
| Commare Systems, Inc.* (Delaware)   | 15.00                |
| Westinghouse Development And Management Corporation                         | 100.00               |
| Westinghouse do Brasil Comercio e Servicos Ltda. (Brazil)                   | 100.00               |
| Westinghouse Electric Company, S.A. (Delaware)                              | 100.00               |
| Servicios Westinghouse De Chile, Ltda.* (Chile)                             | 1.00                 |
| Westinghouse Electric Dominicana S.A. (Dominican Republic)                  | 100.00               |
| Westinghouse Energy Systems - Japan, Inc. (Delaware)                        | 100.00               |
| Westinghouse Energy Systems, Inc. (Delaware)                                | 100.00               |
| Westinghouse Energy Systems Europe S.A.* (Belgium)                          | 8.14                 |
| Westinghouse Environmental And Geotechnical Services, Inc. (North Carolina) | 100.00               |
| Westinghouse Remediation Services, Inc. (North Carolina)                    | 100.00               |
| Westinghouse Environmental Management Company Of Ohio, Inc. (Delaware)      | 100.00               |
| Westinghouse Government Environmental Remediation Programs, Inc. (Delaware) | 100.00               |
| Safestates L.L.C. (Delaware)  | 100.00               |
| Westinghouse Hanford Company (Delaware)                                     | 100.00               |
| Westinghouse Holdings Corporation (Delaware)                                | 100.00               |
| Westinghouse De Puerto Rico, Inc. (Delaware)                                | 100.00               |
| Knoll De Puerto Rico, Inc. (Delaware)                                       | 100.00               |
| Westinghouse Electric S.A. (Switzerland)                                    | 100.00               |
| Airships Ltd. (United Kingdom)  | 2.66                 |
| Elektrik Technizati Imalati Tesisati, A.S. (Turkey)                         | 4.23                 |
| Golden Rose Communications PLC (United Ringdom)                             | 10.00                |
| Ryosung Industries Co., Ltd.* (South Korea)                                 | 1.20                 |
| IC Enerco s.r.o. (Csfr)   | 33.00                |
| International Capital Partners (Germany)                                    | 5.00                 |
| International Venture Partnership (Luxembourg)                              | 6.28                 |
| ISCOSA Industries And Maintenance Ltd.* (Saudi Arabia)                      | 75.00                |
| Long Wei Power Generation Service Technology Company (Prc)                  | 51.00                |
| Modelpol, SP (Poland)   | 51.00                |
| Reftrans, S.A.* (Spain)   | 60.00                |
| Servicios Westinghouse De Chile, Ltda.* (Chile)                             | 99.00                |
| Servicios Westinghouse de Mexico S.A. de C.V. (Mexico)                      | 99.00                |
| Shanghai Controls United, Limited (Peoples Republic of China)               | 49.00                |
| Societe Generale De Traveaux Electriques* (France)                          | 55.00                |

| SSIDIARY   | OWNED BY PARENT |
|--|-----------------|
| Westinghouse Holdings Corporation Westinghouse Electric S.A. (continued) |                 |
| Thermo King Czech Republic, s.r.o* (Csfr)                                | 100.00          |
| Thermo King Dalian Transport Refrigeration Company, Limited* (Prc)       | 70.00           |
| Thermo King Do Brasil, Ltda. (Brazil)                                    | 100.00          |
| Westinghouse Czech Republic s.r.o. (Csfr)                                | 100.00          |
| Westinghouse Electric (Asia) S. A., Zug (Switzerland)                    | 100.00          |
| Westinghouse Electric (Asia-Pacific) Holdings, Ltd. (Singapore)          | 100.00          |
| Westinghouse Electric Singapore Ltd. (Singapore)                         | 100.00          |
| Westinghouse Electric (China) S.A., Zug (Switzerland)                    | 100.00          |
| Westinghouse Electric Australasia Limited* (Australia)                   | 100.00          |
| Westinghouse Electric Austria (Austria)                                  | 100.00          |
| Westinghouse Electric Engineering And Trading, Ltd.* (Hungary)           | 90.00           |
| Westinghouse Electric Europe Coordination Center, S.A.* (Belgium)        | 99.98           |
| Mestinghouse Electric GES MBH (Austria)                                  | 100.00          |
| Westinghouse Electric GmbH, Birsfelden (Switzerland)                     | 100.00          |
| Westinghouse Electric Impianti, SRL* (Italy)                             | 49.00           |
| Mestinghouse Electric GmbH, Frankfurt (Germany)                          | 100.00          |
| Westinghouse Electric Impianti, SRL* (Italy)                             | 51.00           |
| Testinghouse Electric Korea Ltd. (South Korea)                           | 100.00          |
| Westinghouse Electric Limited (United Kingdom)                           | 100.00          |
| PWR Power Projects, Ltd.* (United Kingdom)                               | 50.00           |
| Westinghouse Electric Poland Limited (Poland)                            | 100.00          |
| Restinghouse Electric S.P.A. (Italy)                                     | 100.00          |
| Westinghouse Electric Spain, S.L. (Spain)                                | 100.00          |
| Westinghouse Electrique France, S.A. (France)                            | 100.00          |
| Societe Generale De Traveaux Electriques* (France)                       | 45.00           |
| Westinghouse Energy Systems Europe S.A.* (Belgium)                       | 90.00           |
| Restinghouse Irish Holdings, Limited (Ireland)                           | 100.00          |
| Westinghouse Electric Ireland Limited (Ireland)                          | 100.00          |
| Westinghouse Electric Manufacturing Company, Limited (Ireland)           | 100.00          |
| Westinghouse Saudi Arabia Ltd. * (Saudi Arabia)                          | 90.00           |
| Testinghouse Trading Company, Ltd. (Switzerland)                         | 100.00          |
| Westinghouse Electric Engineering And Trading, Ltd. * (Hungary)          | 10.00           |
| Tti Advanced Technology Ltd. * (India)                                   | 39.90           |

| SUBSIDIARY  | % OWNED<br>BY PARENT |
|---|----------------------|
| Westinghhouse Holdings (continued)                                    |                      |
| Westinghouse Gulf LLC (United Arab Emirates Branch)                   | 49.00                |
| Westinghouse International Technology Corporation (Delaware)          | 100.00               |
| Westinghouse Investment Corporation (Delaware)                        | 100.00               |
| Westinghouse World Investment Corporation (Delaware)                  | 100.00               |
| Westinghouse Electric Europe Coordination Center, S.A.* (Belgium)     | 0.00                 |
| Westinghouse Foreign Sales Corporation (Barbados) (Barbados)          | 100.00               |
| Westinghouse Idaho Nuclear Company, Inc. (Delaware)                   | 100.00               |
| Westinghouse Industry Products International Company, Inc. (Delaware) | 100.00               |
| Westinghouse Industry Services International Company, Inc. (Delaware) | 100.00               |
| Westinghouse Industry Services Asia Private, Ltd. (Singapore)         | 100.00               |
| Westinghouse Industry Services Thailand Ltd.* (Thailand)              | 60.00                |
| Westinghouse Industry Services Marketing, Ltd (Thailand)              | 100.00               |
| Westinghouse Saudi Arabia Ltd.* (Saudi Arabia)                        | 10.00                |
| Westinghouse International Atomic Power S.A. (Switzerland)            | 100.00               |
| Westinghouse International Power Systems Company, Inc. (Delaware)     | 100.00               |
| Westinghouse International Projects Company (Delaware)                | 100.00               |
| Westinghouse International Service Company, Limited (Delaware)        | 100.00               |
| Westinghouse Ksc Co., Inc. (Delaware)                                 | 100.00               |
| Westinghouse Landmark Gis, Inc. (Delaware)                            | 100.00               |
| Westinghouse Nuclear Japan, Inc (Delaware)                            | 100.00               |
| Westinghouse Operating Services Company (Delaware)                    | 100.00               |
| Westinghouse Pictures, Inc.* (Delaware)                               | 100.00               |
| Westinghouse Savannah River Company, Inc. (Delaware)                  | 100.00               |
| Westinghouse Security Electronics (California)                        | 100.00               |
| Westinghouse Security Systems, Inc. (Debawase)                        | 100 09               |
| Westinghouse Sistems Energeticos Espana, Inc. (Delaware)              | 100.00               |
| Westinghouse Staffing Services, Inc. (Delaware)                       | 100.00               |
| Westinghouse Superconducting Service Company                          | 100.00               |
| Westinghouse Surveillance Systems Limited* (United Kingdom)           | 10.00                |
| Westinghouse Transport Leasing Corporation (Delaware)                 | 100.00               |
| Wittneser International Inc. (Delaware)                               | 100.00               |
| WPIC Corporation (Delaware)   | 100.00               |
| York Resource Energy Systems, Inc. (Delaware)                         | 100.00               |
|   |                      |

**Exhibit C**Westinghouse Electric Corporation